# DX LISTENING DIGEST

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PROPER CREDIT PLEASE READ BACK COVER TO FAMILIARIZE YOURSELF WITH OUR STANDARDS AND PRACTICES. THANKS TO MOST SUBSCRIBERS FOR THEIR PATIENCE IN UNDERSTANDING THE IRREGULAR NATURE OF THIS PUBLICATION. REGULAR LISTENERS TO WORLD OF RADIO WILL ALWAYS KNOW WHEN A NEW ISSUE BE PUBLISHED.

AUSTRALIA RA M96 SKED STARTS 10/3; PLANS FOR SHEPPARTON TO USE 12080 EX-11695 AT 1430-2100 ENGLISH, SINCE 11695 MIXED W/ 6060 TO CAUSE A PROBLEM ON 5635, INTERFERING WITH PERTH/COCOS ISLAND AERO COMMS ON 5634; THE MIX WILL NOW APPEAR ON 6020 INSTEAD [ANOTHER RA FQ] (LAWRENCE HESTER, SWAN HILL VISITING SHEP, AND BOB PADULA, ARDXC ELECTRONIC DX PRESS 18/2 VIA GEORGE THURMAN) EASIER THAN FIXING THE SPUR

FEDERAL OPPOSITION [LIBERAL-NATIONAL] COALITION SAYS THAT IN GOVT IT'D GUARANTEE FUTURE OF AU'S INTL BC ORGS, RA AND ATV; OUTLINED IN A POLICY STATEMENT FOR THIS YEAR'S ELECTION. COALITION IS STRONGLY SUPPORTIVE OF RA'S EXISTING SVCS AND'D ENSURE THEY'RE NOT PREJUDICED OR DOWNGRADED IN ANY WAY (RA NX 18/1 VIA BBC MONITORING) [ALL BBCM MATERIAL COURTESY OF MONITORING TIMES]

BELGIUM FOR 7-96 FROM 31/3, RVI RESUMES SE AS SVC, EG M-SA 1300, SUN 1230 ON 15540 //NEW 15605 TO NAM, 2330 DAILY 9925 NAM, NEW 11815 SAM (JOE HANLON, PA) 13605 NOT 15605 (RVI VIA BÖSCHEL VIA THURMAN)

BELIZE BROADCASTING CORP. OF BELIZE WILL CEASE TO EXIST 31/3. CONSISTS OF 2 FM STNS--FRIENDS, AND RADIO BELIZE GOLD. ORIGINAL R. BELIZE HAS NOT BC ON AM FOR OVER 5 YRS, NEITHER MW NOR SW. THE FIRST PRIVATE RADIO FM STN "KREM" ALSO WENT OFF THE AIR BRIEFLY IN DEC, UNABLE TO PAY ELECTRICITY AND PHONE BILLS. NOW IT IS BACK UNDER NEW MGT WITH A LESS AMBITIOUS FORMAT AND SKED. PUBLIC IS REQUESTED TO OFFER RECOMMENDATIONS TO AN OVERSIGHT COMMITTEE ON WHAT TO DO ABOUT THE BCB. I HOPE THEY FOLLOW THE EXAMPLE OF THE NOW DEFUNCT BCB TV STN AND RE-BC BBC 24 HPD. CURRENTLY THEY ARE ONLY RE-BCING BETWEEN 12 AND 6 AM ON FM. I IMAGINE THAT THE BCB WILL BECOME A NX SVC W/HALF-HOUR UPDATES EVERY 6 HRS. VOA XMTR IN SOUTHERN BELIZE LIKEWISE IS SCRAMBLING FOR REVENUE, OFFERING TO AIR PRIVATE BCS ALL OVER NORTHERN CAM, SOUTHERN MEX FOR THE 20 HPD NOT UTILIZED BY VOA. SO FAR NO TAKERS FOR THIS AM OPPORTUNITY (DAVE HERNÁNDEZ, CONCEPCIÓN VILLAGE, 31/1, WORLD OF RADIO)

BOSNIA & NON UTE FQS: NATO FORCES MONITORING AIRSPACE HRD ON 3178, 4789, 5788, 11173. SARAJEVO AIRPORT BCS LANDING CONDX ON 5462. INTL RED CROSS IN BOSNIA USING 6990, 6992, 6996, 6998. ENGLISH UNITS OF UN PROTEX FORCE 4686, 5095, 5725, 6773. OTHER NATO FQS HRD ARE 4066, 6262, 6997 (R BUDAPEST SW CLUB VIA LARRY SHEWCHUK, CIDX MESSENGER, FEB)

BRAZIL CHECKING WWCR 15685 MON 19/2 AT 1410, FOUND DISTORTED SPUR, NO CARRIER IN SPANISH W/BRAZ MX, ROUGHLY COVERING 15670-15685, AS WELL AS 15555-15565, 15780-15790, 15905± WEAKER, 15330, 15095, SOON TRACED TO R BRAS ON 15445. WHY DON'T THEY FIX IT OR TURN IT OFF? BUT NO SUCH PROBLEM NEXT MORN (GH)

R. INCONFIDÊNCIA REACTIVATED ON 15189.8 (TONY JONES, PARAGUAY, DXING W/CUMBRE 2/3) TIME?

BULGARIA PLOVDIV 9700 IN ENGLISH 2000-2100 HAS SPURS ON 9673.6, 9726.3 (WOLFGANG BÖSCHEL, GERMANY, BC-DX VIA THURMAN)

CANADA RCI THREATENED W/CLOSURE 31/3, BUT AFTER MASSIVE LOBBYING EFFORT BY LISTENERS TO PRIME MINISTER, REPRIEVE (GH) NEW DEPUTY PM SHEILA COPPS ANCD RCI WILL DEFINITELY BE EXTENDED ANOTHER YEAR TO 31/3/97 AT PREVIOUS FUNDING LEVEL; MEANWHILE SEARCHING FOR NEW WAYS TO FINANCE IT (RCI MAILBAG 18/2 VIA DIANE MAUER)

RCI WITH DOUBLE EXPOSURE AT UNSKED TIME, 1950 ON 17725, 1958 RCI IS AND CUT OFF; COULD IT BE A TEST VIA VOA SÃO TOMÉ? (TONY JONES, PARAGUAY, DXING WITH CUMBRE 2/3) WHY?

CBC IDEAS, 9:05 PM LOCAL M-F TOPICS FOR REST OF MARCH: MON 11, WORLD OF IDEAS: 1984. TUE 12, MAGIC NUMBERS. WED 13, MEDITATIONS ON GRIEF + WED 20. THU 14 & 21, MARCEL PROUST IN SEARCH OF LOST TIME. FRI 15 & 22, SHAKESPEARE'S GLOBE. MON 18, PLASTIC WORDS. TUE 19, PEACEKEEPING AND OTHER POST-COLD WAR ILLUSIONS. MON-FRI 25-29, THE UNCONSCIOUS CIVILIZATION: 1995 MASSEY LECTURES BYJOHN RALSTON SAUL--FREEING US FROM HIGHLY-CHARGED PASSIVITY, ADDICTION TO SOLUTIONS (CBC RADIO GUIDE VIA TIM FLANNERY)

COSTA RICA R NACIONAL ESPAÑA GOOD IN SP 13/2 ON 3225, 0203 T/IN PAST 0245; GONE AT 0400 RECHECK (RON TROTTO, IL) 3225 REE AT 1215 MX, ID (GIGI LYTLE, TX, 21/2) REE SENT SKED UPDATE SHOWING 3225 M-F AT 1100-1400, TUE-SAT 0100-0400 (VIA RON TROTTO, 23/2) SITE NOT SPECIFIED, BUT OBVIOUSLY HERE, AND I HRD AT 0400* GIVING THIS FQ TO RETURN AT 1100, AUDIBLE AT 1300; NO QUESTION OF PROPRIETY AS CR IS IN TROPIX (GH)

AFTER RENAMING THE DX PGM IN EG WAVESCAN "LA ONDA MUNDIAL", TIAWR FINALLY GOT BACK IN SYNC WITH NEW RE-RENAMED WAVESCAN SUN 2300 ON 9725 AND OTHERS, 11/2 WITH SAME EDITION AS ON WRMI BUT MUCH BETTER

RECEPTION; 18/2 GONE AGAIN WITH LATE SIGN-ON SKIPPING ONLY THIS PGM; 25/2 BACK AGAIN; HAVEN'T BEEN CHECKING SUN 1100 PREFERRING SLEEP, BUT AWAKE 3/3 AND IT WAS ON THEN; ALL XMTRS SILENT AGAIN 2300 (GH)
RFPI ABANDOND 9400; CURRENTLY USING 15050-USB DAYTIME, 7385 AM NITE, 6205-USB NIGHT, 6200 AM DAY. NO TIME CHANGES FOR WORLD OF RADIO EXPECTED IN 2ND QUARTER; SEE BACK COVER. WOR NOW NORMALLY AIRS WITHOUT DELAY ON RFPI, PRODUCED WED, FIRST AIRING FRI 2000; DELAY EXPECTED SEMANA SANTA (GH) RADIO NATION, FROM THE NATION MAGAZINE, ADDED TO SKED, SAT 2100, SUN 0500, MAYBE 1200 (CHET COPELAND, DC) MY SOUND CURRENTS OF THE SPIRIT 5-MIN SHOW IS NOW 7 DAYS PER WEEK AT 2355, 0755 (JAMES BEAN, ME)

CUBA RHC SPUR ON 5913.76, 11/2 0420 IN EG //9830, 9820, 6180, STRONG AT FIRST BUT WEAKENING AND GONE BY 0439 (BRIAN ALEXANDER, PA)

DOMINICAN REPUBLIC R. CLARÍN STILL ON SW TNX TO HARMONIC OF 860 X 4 ON 3440 AT 1057 LA POPS, JINGLE ID; NOT HRD ON 1720 (MARK MORMAN, VT, CUMBRE DX VIA HCJB DXPL 18/2)
R. REVELACIÓN HARMONIC ON 2479.9 9/2 1102 NA, 1103 ID FOR 1240 IN PUERTO PLATA, 1126 FADE. IS SUCCESSOR TO LV DE LA LIBERTAD, IN WRTH THRU 1990 WITH MW 1240 HIAU, LISTED SW 3205 & 6195, HRD IN 1973 ON 6218 (JERRY BERG, MA, FINE TUNING)

EGYPT WRTH RCVD PRESS FROM GEC-MARCONI THAT HAS CONTRACT TO SUPPLY A 500 KW SW TO ERTU FOR INSTALLATION AT ABIS SITE NEAR ALEXANDRIA, SHIPPED DURING FIRST HALF OF 1996 (REC.RADIO.SW VIA ROB PEEBLES)

EQUATORIAL GUINEA R. AFRICA, 15185.7, SAT 17/2 1255-1608* EG US RELIGION INCL SALVATION ARMY. 1601 ID AND ADDRS IN CUPERTINO, EQ G, NIGERIA, LIBERIA, GHANA, 1605 NA. BACK AT *1648-2300* MORE EG RELIG, 2252 ID AND ADDRS, NA TO S/OFF; FAIR, NOT HRD IN A WHILE; NOTHING NEXT DAY SUN 18/2 (ALEXANDER, PA)

FRANCE [& NON] RFI DOES IT AGAIN! ON FIRST DAY OF M-96 SEASON, SUN 3/3, CHECKED 13625 FOR EG AT1230, BUT ONLY HRD FR //15515; NOTHING ON 13640 OR 11615. AT 1254 RECHECK, 13625 HAD FR TALK, BUT EG W/ DAVID PAGE WAS FADING IN AND OUT UNDERNEATH IT, THEN NX HEADLINES IN EG, STANDARD CLOSING; 1257 BOTH SEEMED TO GO OFF AT EXACTLY SAME TIME. I ASSUME AS IN PREVIOUS SEASONS TDF IS ALL FOULED UP, STUPIDLY FEEDING TWO SEPARATE PGMS TO DIFFERENT XMTRS ON SAME FQ IN FRANCE, GUIANA. SINCE EG WAS WEAKER, ASSUME THAT XMSN WAS FROM FRANCE (GH, OK) ALSO NOTED BY GEORGE THURMAN; PREVIOUSLY TOOK A CALL TO SIMSON NAJOVITS EG HEAD AT RFI TO GET THIS FIXED. STILL SAME HORRIBLE MIX ON 5/3 CHECK (GH)

GUATEMALA LA VOZ POPULAR, CLANDESTINE ON "7000" OPERATES 4 HPW, TUE & FRI FROM 2315; LOCATED ON A HUMID VOLCANO REQUIRING REPLACEMENT OF EQP AND TAPES SEVERAL TIMES A YEAR; MOVES AROUND FOR FOOD SUPPLY, NOT TO ESCAPE ARMY. MAGAZINE PGM INCLUDES JEWISH, MAYA ELEMENTS (CLAUDIA & DOMINGO, LVP, ON RN RADIO-ENLACE) SELDOM HRD, BUT AS I RECALL ACTUALLY DOWN IN THE 6900S (GH)

HONDURAS HONDUTEL GAVE PERMISSION FOR R COPÁN INTL TO TEST ON 4940, 7445, OR FQS CLOSE TO THOSE FREE OF QRM, POSSIBLY 7460, BUT THAT COULD CHANGE (JEFF WHITE, WRMI VIA CUMBRE DX VIA EDXP VIA THURMAN)

INDIA THE ECONOMIST REPORTS THAT MAHARASHTA STATE GOVT JUST CHANGED NAME OF CITY OF BOMBAY TO MUMBAI, ALREADY OFFICIALY ACCEPTED BY INDIAN GOVT. LIKELY AIR BOMBAY NOW "MUMBAI" (HARALD KUHL, VIA FABRIZIO MAGRONE VIA LARRY VAN HORN, 14/2, MT) NEW NAME WAS PUBLICIZED A COUPLE YEARS AGO BUT DIDN'T CATCH ON IN WESTERN USAGE; WILL IT THIS TIME? ACTUALLY I ASSUME IT IS JUST LOCAL LANGUAGE VERSION (GH)

IRELAND [NON] MIDWEST RADIO WILL BC FOR 6 HRS IN 6 LANGS VIA 2 X 250 KW XMTRS IN UKOGBANI ON 17/3: 1200-1600 ON 11715, UT 18/3 0000-0200 ON 7325 TO NAM (ANDY SENNITT WRTH, VIA RNMN VIA MAUER) LATTER OBVIOUSLY PRE-EMPTING BBC PGMING. IS THIS TOTALLY SEPARATE FROM RTE? CHECK FOR IT THAT SUNDAY

ISRAEL NEW SKED FROM 1/1 INCLUDES EG AT 1500-1530 ON 9390, 11685 TO WEU/NAM (VIA ROSENZWEIG, BÜSCHEL, DSWCI SW NEWS) BUT WE HAD A LATER REPORT FROM ROSENZWEIG THAT THIS NEW SKED WAS POSTPONED UNTIL APRIL. HE DID NOT, BUT WE ALSO POINT OUT THAT ONCE DST IS IN EFFECT THIS WOULD BE AT 1400 IF IT HAPPENS (GH)

ITALY AWR HAD GIVEN UP HOPE FOR A MAJOR STN IN ITALY, BUT THEN PRES. SCALFARO SIGNED A LAW PERMITTING AWR TO APPLY FOR A SW LICENSE FOR INTL BCING; 60-DAY DEADLINE REQUIRED EFFORT TO GET DOCUMENTATION READY; FILED TO UPGRADE EXISTING LOW-POWER STN AT FORLI TO HIGH-POWER. AWR HAD OPTION ON A LARGE TRACT OF LAND NEAR THE ADRIATIC COAST IN THE NORTH, RECLAIMED FROM SEA, FLAT AND IDEAL FOR SW; WAS ABOUT TO GIVE UP THE OPTION WHEN THIS OPPORTUNITY AROSE, PROVIDENTIALLY (TRANS-MISSIONS, AWR DEC VIA PETERSON)

JAPAN UNDER CONSTRUCTION IS A SW BC ANTENNA THAT SPINS TO REDUCE FADING (R. JAPAN MEDIA ROUNDUP 4/2) BY RANDOMIZING POLARIZATION AT THE OUTSET, I GATHER; HOW ABOUT MORE INFO ON THIS?! (GH)

KARELO-FINNISH SSR [NON] IF YOU PRETEND THIS IS STILL A RADIO COUNTRY (GH) R. PETROZAVODSK IS ACTIVE ON SW WITH MAYAK RELAY IN RUSSIAN ON 7330 AT 0200-0500, 20 KW (ALEXEI AGEENKOV VIA DAN HENDERSON, HCJB LATEST CATCH)

KURDISTAN [NON] R. DENGE MEDYA, VIA SW IN RUSSIA, NOT HRD IN 2+ MONTHS; STARTED 20/10/95, THEN SEEMD TO GO OFF IN FIRST HALF OF NOV, HRD AGAIN 5/12, BUT OFF AGAIN AFTER A FEW DAYS AND NOT HRD SINCE. WAS 0800-1100 & 1300-1600 ON ONE OF: 9855, 11985, 15255 (BBCM 16/2)

LIBYA LJB TRIPOLI HRD ON OLD FQ 6155 BETWEEN BREAKS OF ORF PGMING // 7120 0730-1100, SOUNDS LIKE SAHARAN AND CHAD PGM TYPE 0730-0900; MAYBE VIA OLD 100 KW TRIPOLI STN BUILT IN 1960S. ON 9655//11710 LOW SIGNAL LEVEL, APPARENTLY NOT 500 KW. 9705 // 11815 SUPER-POWER MAIN PGM, AND 15415 BUT NOT DAILY

at 0800-1100 (Wolfgang Büschel, DSWCI SWN) 6155 also hrd here intermittently; also hrd believed Libya on 7245 morns, but these are not on air Fris; 7245 irreg, 15435 sometimes instead of 15415 (Noël Green UKOGBANI, DSWCI ed, Feb) see MALTA below

MADAGASCAR From 22/2, DW planned relays via RN: EG 09-0950 SAf 11825 15145 250 kW (DW via Andreas Volk via ARDXC EDXP via Thurman)

MALTA DW Cyclops relay closed 15/1 after expiration of agreement. DW wanted to pay only 120 Maltese kilopounds a year instead of 600. V of Mediterranean also lost access to SW xmtrs; joint stn w/Libya owning 49% but unknown if Libyan xmtrs can be used instead (Alfred Zarb, VOM on ORF KW-Panorama,BBCM)

MAURITANIA R Mauritanie hrd 21/2 2257 on 4845 in AR, ME mx, P but audible; again 22/2 at 2312 (Dave Jeffery,NY)

MEXICO For very first time, DST for all 3 timezones in 1996, from April till 24/10 (DPA via Büschel via Thurman) So UT-5 in most, 6 or 7 in the west; no doubt //USA; a NAFTA clause? (gh)

MCNGOLIA RUB on 9957.8 at 0910-0940 & 0300-0330 in EG, audible below V of Hope (Noël Green via Büschel via WDXC Contact, Feb)

NEW ZEALAND Gigi Lytle rcvd a tent RNZI sked effective 17/3 to 4/5, including 9670 kHz, but appaently outdated before effectuated, as on 29/2, Adrian Sainsubry ancd a different sked with 9570, and different fq change times, tho not as precise day by day as the first version, omitting weekend variations. He said: 1650-1850 6145, 1850-1950 9810, 1950-2306 11735, 2307-0500 15115, 0500-0700 9570, 0700-1200 6100. So 9700 is gone again, and note 2306/2307 later change from 11735 to 15115 (gh)

NICARAGUA R Miskut, 5770 USB suppressed carrier, sometime stays on after sunset, at least on Sat: 18/2 0010-0300+ SP DJ chatter, US/SP pops, disco, US C&W, electronic sound FX, phone talk, echo anmts. 0211 echo ID, Fair but HNL locally, on past usual 2340* into UT Sun. And 2nd Sat in a row UT 25/2 0055-0300*, SP anmts, pops, nice steel drum mx, weak in HNL (Brian Alexander, PA)

NIGERIA 5965, R. Plateau, tentative 25/2 0440-0530+, ads for New Life [!] cigarettes, Monkey Save Super Market, EG and vern, Ray Charles, over Cuba which 0501*, then poor and weak by 0525 (Alexander)

NORWAY RNI expects to have new 11-21 MHz curtain antenna on by summer; later in year new Sveio xmtr and then close Fredriksted by end of 1996 (Joe Hanlon, PA, 3/3) & move xmtr somewhere else or junk?

PAPUA NEW GUINEA R. North Solomons reactivated on 3325, 10 kw from Rabaul, says Controller of Engineering in Port Moresby, same site as other NBC stns nr recent volcano eruption, but studios are on Buka [spelt] Island, and linked to PM SW 4890 outlet. Has own pgms till 1200, then PM relay -1300* (Arthur T Cushen, NZ, RNMN 16/2)

PUERTO RICO (?) On 6739.5 usb, AFRTS hrd 4/3 from 0045; mentioned Roosevelt Roads (Pete Costello, MA) Tuned it right in, nice clear signal, C&W mx pgm seems from satl svc, with local breaks twice an hour around :48 and :18 for a few mins incl Navy and USAF PSAs, tax help, community calendars, student exch, done by Navy Journalist Amy Montgomery, also mentd Roosevelt Roads several times, and once a shampoo ad perhaps by mistake or is AFRTS commercial now? Went right thru hourtop without local IDs, and never hrd definite ID elsewhen. UPI nx at 0300 but not 0200; still in past 0500. Mx svc with DJ Melanie Morgan called itself "Today's Best New Country and Yesterday's Favorites". FM Atlas lists outlet with countryformat from AFCN R.R. at 91.1, beautiful mx format on 90.5 (gh, OK) gone the next night

RUSSIA Sent rpt to VOR E-mail addr: root@avrora.msk.su -- within 6 days rcvd friendly online QSL from Ms Olga Troshina, WS, Ltrs Dept, for 7180 and 9890 (Sandte via Cumbre DX via EDXP via Thurman) This was previously copied as rdot, apparently mistake (gh)

SERBIA Ran across R Yugoslavia 16/2 at 0145-0215 on 7130, not sked time or fq, excellent, relay? (Leroy Long, OK) I checked ut 28/2, and 7115 was on as usual at 0130 in lang, seems from Prístina studio; at 0130 & 0145 chex, 7130 had a weak sig in GM, maybe DW; but at *0159 RY on 7130, opening EG to Eu/NAm, mentioning 6100, 6185, 7115, 7130 for various targets, as usual not making clear that not all fqs are used at all times (gh, OK)

SINGAPORE R. Singapore, EG 1100-1400 on new 6015 complete pgm sked includes these subtopics for Newsline at 1340-1355: Mon, analysis of political, social events in headlines. Tue, Asian Aerospace '96. Wed, = Mon. Thu, special on media industry in Sing--major players and prospects of Sing becoming a media hub. Fri = Wed. Sat, Regional Press Review. Sun, Interview (via Doug Dine via Diane Mauer)

SOUTH AFRICA Note new RFI relay in sked elsewhere in this issue; checked 7135 at 0336 1/3, and hrd well in FR (gh, OK)

SPAIN El Punt, daily 4/1 reportd that the Secretariat of Hygiene and Labor is carying out a study since 1987 showing that at certain locations the R. Liberty installations exceeded greatly limits of human exposure to RF radiation. People restricted from certain bldgs and antenna fields. Four of 100 workers got multiple sclerosis, but connexion to magnetic fields not proven; peril to nearby bathers

AT PALS BEACH UNKNOWN. FLUORESCENT LIGHTS GLOW UNCONNECTED (VIA JORDI BRUNET, PLAY DX, IN CATALAN)

SWEDEN RSI TESTED TO NAM IN JAN ONE WEEK AT 0200-0300 ON 7145, 0300-0400 ON 7290 DUE TO RUSSIAN QRM ON 7115, ENGLISH ON HALF HOUR, BUT MUF WAS TOO LOW (TOM SUNDSTROM NJ, CUCUMBRE DX)

SWITZERLAND REMINDER THAT TETRAWEEKLY RED CROSS BCS VIA SRI ARE WKND OF 15/3-16/3-17/3, 5 MINS IN EG AT 0800, 1245, 1645, 1845 ON 9885, 13635, AND ONE OTHER (WRTH 96)

UGANDA R UGANDA ANC'D 10/2 THAT FROM 12/2 IT'D TEST 3340 AT *1300 AND UNTIL 0600* FOR RED CHANNEL EX-4976, STILL ON 7195 DAYTIME; 3340 CONFIRMED, LAST USED IN 1960S AND 70S (BBCM)

U K O G B A N I BBC'S WAVEGUIDE ANCD IT IS CANCELLED W/NEW SEASON FROM APRIL, BUT AN 8-PART SERIES ON LISTENING BASICS WOULD RUN IN SEPT/OCT. IN MAR IS HRD FRI 1235, SUN 2320 TO AMS. INSULTING THAT W/ MOST OF ITS LISTENERS ON SW, BBC HAS NEVER COMMITTED TO A GENUINE DX/MEDIA PGM HALF HOUR WEEKLY WITH OPEN RUN WHICH WE DESERVE. FOR A FEW DAYS IN EARLY MAR, 17840 WAS CLOSING AT 1715* INSTEAD OF 1900* SO WE MISSED A LOT OF PGMS; BACK ON HOWEVER AS OF MON 4/3. ALSO [NON] IS THIS: 26/2 STEPPING THRU MEMORIES OF BBC EVENING FQS, SURPRISED TO FIND IT ON 9590 IN MORN AT 1305, SATL-HOP BEHIND RCI 9515 AND ANTIGUA 15220, LOUD & CLEAR. CLOSED AT 1600* AFTER BBC-PRODUCED MUSICAL ID MENTIONING RELAY BY WYFR!! DAILY FROM *1300. CALLED OKEECHOBEE AND WAS TOLD IT STARTED 22/2, THE ONLY BBC RELAY SO FAR. THEY DIDN'T KNOW IF IN EXCHANGE OR TIME PURCHASE. BUT I STILL CAN'T IMAGINE A BBC XMTR CARRYING WYFR. IS ON W CANADA BEAM, 315° BEAM, DUE NW COVERING MOST OF USA, INCIDENTALLY. PLANNED FOR SOME TIME AS APPEARS IN MAR BBC WW LONDON CALLING CHARTS LACKING SITES. ANYHOW, THIS IS A FIRST, BBC RELAY VIA PRIVATE US SW STN. UNLIKE VOA RELAYS, THIS INSERTS BRIEF WYFR IDS AT EACH HOURTOP W/LILLIBURLERO (GH) THIS WAS ALSO DISCOVERED INDEPENDENTLY BY RON TROTTO, AND JOE HANLON HRD ABOUT IT ON ODXA NEWSLINE. COINCIDENTALLY? ON VIVA MIAMI AND RADIO-ENLACE, JEFF WHITE REPORTED THAT BBC HAD OPENED UP ITS ONLY PGM PRODUXION CENTRE OUTSIDE UK, IN MIAMI FOR LAM SVCS IN SPANISH, TO ADD QUECHUA LATER. BUT NO MENTION ON THAT OF WYFR RELAY (VIA DIANE MAUER, GH)

URUGUAY SURVEY OF SW ACTIVITY HERE: SODRESPECTÁCULOS INACTIVE DUE TO COSTS, R LIBERTAD SPORT NEITHER, BUT SODRE PLANS A REGULAR SW SVC: SODRE FQS: 6125 250 W //CX-38 WHICH IS AT 1000-0400. 9620 INACTIVE USED TO CARRY CX-6. 15275 INACTIVE, UNDER REPAIR, WAS CX-26 PGM TO ANTARCTICA. 6010 SSB INACTIVE AFTER SOME EXPL TESTS. R LIB SPORT 6045 IRR W/CX-18 FROM RIVERA; WHEN ON HAD R. INTEGRACIÓN INTERAMERICANA SVC BY JOURNALISM STUDENTS. R EL ESPECTADOR, 11835 INACTIVE W/XMTR PROBLEMS, AND NO INTEREST IN REPAIRING. R. MONTE CARLO & R ORIENTAL HAVE ONE 1 KW XMTR ON 3 ALT FQS: 6140 AT 1000-1630, 11735 AT 1630-2300, 9595 AT 2300-0300; TIMES VARY DUE TO SPORTS, FROM 670 AND 930 STNS, BUT M-F HAS NEWS IN SP, PT, IT FROM RAI "AQUÍ ROMA" AT 2200, 0200. R LA VOZ DE ARTIGAS, 6075 IS IRR, WKNDS ONLY. EM. CIUDAD DE MONTEVIDEO ON 1370 HAS RENTED 2 SW FQS, 9650 AND 15230, AND APPLIED TO DIRNACCOMS TO GO ON THE AIR, BUT DELAYED (ROBERT VELO, URUGUAY, VIA GABRIEL IVÁN BARRERA, RN RADIO ENLACE 24/2)

U S A WWCR #4 STARTED TESTING 13/2, INAUGURATED 19/2, INITIAL SKED 1800-2200 9400, 2200-0600 7435, PARTLY SIMULCASTING #1 AT FIRST, WITH M-F CUSTOMERS STAIR AND PATRIOTNET FROM COLORADO. THEN ON UT 1/3 STARTED TESTING 2460 KHZ BRIEFLY AT 0200, AND THEN AT 0500-0600; GOOD HERE AS EXPECTED, BUT 2460 AND 2480 ARE THE WORST POSSIBLE CHOICES ON 120M DUE TO HUNDREDS OF NAM STNS ON 1230 AND 1240 PUTTING OUT 2ND HARMONICS AT LEAST NEARBY. #4 OPERATING SO FAR M-F ONLY, UNTIL PAID PGMING CAN BE LINED UP SAT & SUN. THEN, WORLD OF RADIO AND OTHER POPULAR PGMS WILL GET ADDITIONAL TIMES, INCLUDING HAM RADIO & MORE, SUN 2305 (FROM APRIL DST, 2205 UT) WHEN IT IS LIVE & SW LISTENERS MAY CALL IN. TOPICS: 10/3, LUCK HARDER, EX-ARRL ON FUTURE OF HAM RADIO, GLENN BAXTER; 17/3, STEVE ELLSWORK, EXOTIC RESEARCH RE HAARP AS A MIND-ALTERING PROJECT; 24/3, BETTY CLEMENS, AUTHOR OF WAKE OF THE WIRELESS MAN, ON EARLY RADIO, FATHER KNEW MARCONI; 31/3, TENTATIVELY, GH IF ACTUALLY LIVE ON SW ON THAT DATE. SEE WGTG (GH)

SEE BACK COVER FOR LATEST KNOWN WOR TIMES, AND LISTEN FOR ANMTS; WWCR ALL ONE HOUR EARLIER W/DST. SEE PAGE 29 FOR ITEM ORIGINATING IN ARIZONA REPUBLIC, THE STATE'S LARGEST NEWSPAPER, SOURCE I QUOTED ON WOR, SENDING WM COOPER BALLISTIC, ACCUSING ME OF BEING A HOMOSEXUAL--WHICH I AM NOT. WHY IS HE TAKING THIS OUT ON ME, INSTEAD OF JAMES NICHOLS, AND WHY IS HE SURPRISED MCVEIGH WOULD LISTEN? (GH)

WGTG HAS REACHED AGREEMENT WITH FCC, WWCR, FOR WGTG TO USE 9400 FROM 1/4, AVAILABLE 24 HOURS, ALL SEASONS, SO WWCR #4 CAN THEN SWITCH TO 9475 WHICH HAD BEEN WGTG'S ONLY FQ. BRO STAIR WAS AGAIN OFFERED TIME ON WGTG, 20 HPD, 7 DPW AT BARGAIN $35 AN HOUR, BUT HE TURNED IT DOWN, SO WGTG NOW FEELS FREE TO BUILD UP SKED WITH OTHER PGMING. AND CONTRARY TO WHAT HE SAID IN HIS OVERCOMER NEWSLETTER, STAIR NOW SAYS HE IS NOT GIVING $100K TO WRNO FOR A NEW XMTR, WHICH WRNO HAD ALREADY ORDERED. THAT ORDER WAS CANCELED AND NOW THEY ARE APPROACHING ELCOR FOR ONE (DAVID FRANTS, WGTG, 2/3)

INSTEAD OF BOUNCING IT AROUND THE SKED AT INAUDIBLE TIMES, WWCR OUGHT TO COMMIT TO RUNNING HARVEY THOMAS' VIEW FROM EUROPE JUST BEFORE WOR, FRI 2210 (SUMMER 2110) INSTEAD OF BIBLE READING (W MARTIN)

WVHA IS IN COURT FOR A TAX DISPUTE WITH THE TOWN OF GREENBUSH, ME. TOWN DENIED REQUEST FOR TAX ABATEMENT, ASSESSED AT $7.7 MILLION, INCLUDING 500 KW XMTR, 75 ACRES, RADIO EQP, TOWERS. WOULD BE 20% OF TOTAL TAX TAKE BY GREENBUSH, POP 1800. CSN HAD PAID ABOUT $150K A YEAR SINCE 1987. PROPHESY [SIC] COUNTDOWN CLAIMS WVHA IS A CHURCH SINCE SERVICES ARE HELD IN LOBBY, EXEMPTION DUE. BUT TOWN SAYS MUST ALSO BE FOR CHARITABLE PURPOSES, AND THE MAIN PURPOSE HERE IS BEING A SW RADIO STN (DON GAGNON, BANGOR DAILY NEWS, VIA HCJB DX PARTYLINE)

MRI NOW SKED ON 18930 FROM WSHB; SEE PAGE 28 THO ANOTHER (EARLIER?) VERSION LACKS THIS (JOE HANLON)

WRMI 9955 tuned in at 0100 UT Sun 3/3 for sked bc of La Onda Mundial, Jeff White's Spanish DX pgm which he attributes to Wavescan's Indy address, to find the show ending instead of starting; more sked revisions and Jeff won't send his own skeds directly to me, to his own disadvantage (gh)

R Martí, in wake of Cuban shootdown and Pres Clinton's promise, added 3 SW fqs from Delano: 0700-1200 on 9455, 1200-1400 on 7405, 1800-2300 on 13655 [sic]. No jamming hrd on 13655 or old 13820--maybe because old Soviet radios in Cuba do not tune this range (Rick Seifert, Cumbre DX via Pete Costello, 2/3) Actually on 13665 (gh) [non]:

Due to new xmtrs at São Tomé, Kuwait, VOA is not renewing some relay leases. Try to hear & QSL these before they end 28/3: Mandarin via Irkutsk at 1400-1500 on 5945. English to Africa via Plovdiv at 0500-0530 on 9435. Same via South Africa 1800-1900 M-F on 4875, 1600-1700 S/S on 3970; also Hausa, French 0500-0630 on 9675; but is adding new PT pgm for and about Angola 18/3 at 1830-1900 M-F [no fq] (VOA Communications World 2/10, best hrd, as Will Martin, MO and I agree, Sat 1030 on 5985 -gh) VOA in EG on 6145 at 0400-0430, then PT, not listed anywhere; whence? (Martin, MO)

KAIJ Dallas #1 hrd on 15725 and #2 on 13815 before 2000, so I called DGS HQ in LA for sked: KAIJ-1 2300-0100 13740, 0200-1300 9815, 1400-2200 15725; KAIJ-2 0000-1400 5810, 1400-2400 13815. Note one hour breaks on #1; 13740 still co-channel VOA 0000-0100 (Jim Moats, OH) For some time, had been using only one xmtr (gh) Mod is buzzy, on 9815.1, an embarrassment for USA (Al Quaglieri, NASWA Journal)

1995: THE SOLAR YEAR IN REVIEW
BY KEVIN HECHT

HIGHEST SOLAR FLUX: 97 (JAN 24)
LOWEST SOLAR FLUX: 66 (MAY 26, MAY 27)
HIGHEST A-INDEX: 46 (APR 7)
LOWEST A-INDEX: 0 (FEB 10, FEB 25, APR 3, APR 21, JUL 10, DEC 13)
LARGEST SOLAR FLARE: M7-class (APR 22 1151 UT)

Solar fluxes lurked in the 70s for the majority of days during 1995, with no large-scale flares or disturbances as the sun continued to prod through its minimum phase. It will not be known for some months whether or not solar minimum occurred during 1995; current forecasts call for it to occur in the first half of 1996. During the first half of 1995, solar fluxes fell from monthly averages near 80 to the low to mid 70s, where they remained stable during the second half of the year. Coronal holes were the primary cause of propagation disturbances during 1995, and low solar fluxes severely limited the amount of HF spectrum available to broadcasters, especially during the winter months. Smoothed sunspot numbers fell from the low 20s early in 1995 to values estimated near 10 at the end of the year; this represents true solar minimum conditions. In 1996 expect little change during the first half of the year, however hopefully by the fourth quarter solar fluxes will begin to rise and Cycle 23 will begin.

Data Sources: SEL/SESC Boulder via WWV, Internet World Wide Web page (URL: http://julius.ngdc.noaa.gov/stp/stp.html). All propagation disturbances during December 1995 were due to coronal holes.

As season ending, lots of MW DX tests added to IRCA sked, strictly UT here: Mon Mar 11, 0530-0600 WCMB-1360 Harrisburg PA; 0600-0700, KNOR-1400 Norman OK; 0730-0800 KLVI-560 Beaumont TX. Mon Mar 18: 0600-0630 WOOW-1340 Greenville NC. Sat Mar 23: 0500-0530 WEAG-1490 Starke FL, 0530-0600 WMOP-900 Ocala FL, 0600-0630 WOCA-1370 Ocala FL, 0730-0800 WTMC-1290 Ocala FL. Mon Mar 25: 0500-0530 WRZN-720 Hernando FL, 0530-0630 WSBA-910 York PA, 0600-0630 WKXY-930 Sarasota FL, 0630-0700 WTMY-1280 Sarasota FL, 0700-0730 WRUF-850 Gainesville FL, 0730-0800 WLUS-980 Gainesville FL, 0900-0930 WAMR-1320 Venice FL (all the FL tests are by Asterisk Comms in honor of the IRCA Ocala '96 convention July 19-22). Mon Apr 1 0600-0630 KNIR-1360 New Iberia LA, 1015-1045 WTBQ-1110 Florida NY. Mon Apr 8 when DST will be in effect, time given as 3-3:30 am EST for KSWM-940 Aurora MO, but presumably means EDT = 0700-0730 UT (via J. D. Stephens, IRCA) Additional tests listed by NRC DX News 26/2: Sun Mar 10 0800-0900 WWCN-770 FL. Sat Mar 16 0800-0830 KBTC-1250 MO, 0930-1000 KALM-1290 MO, 1030-1100 WOPP-1290 AL. Mon Mar 25 0530-0600 WZZB-1390 IN, 0830-0900 WBLA-1440 NC. Sun Mar 31 0500-0530 WLIK-1270 TN. Sun Apr 7 0515-0530HCJB-690 Ecuador. Mon Apr 8 0000-0030 ET = 0400-0430 UT? WYTI-1570 VA (NRC DXN)

Oklahoma bc news: KSIW-1450 Woodward went dark in early Dec as part of market realignment, and excess of FM stns in this small town; yet to see this mentioned in any DX, media pub. KTOK-1000 OKC now has ABC Perspective UT Mon 0305, unknown if replaces 0705. If you're on cable or w/TV set programmed to skip "vacant" local UHF, even VHF channels, defeat this from time to time and hook up antenna as you may be surprised at new low power stns on air in your city, small or large. In southern OKC I found "KTV" = Kaleidoscope TV, a network for "everyone" with open captions, descriptive video, ch 19. Locke Supply is putting religious LPTVs all over OK and other states; several in Tulsa, and one on ch 25 blocks any possible reception of KOKH Fox 25 from OKC. K32DZ in Enid really sucks, gave up on 30 min weekly local news show, now has lots of putrid local-originated home shopping; Nostalgia Network has a few good shows, but sked unpublished and unreliable; QRMs KOCB-34 reception from OKC. TCI Cable in Tulsa has some FM satl svcs on FM most customer probably unknow incl BBC on 93.3 from C-SPAN Audio 2, never listed by BBC Worldwide as well as clasical and jazz stns on 97.9 or below in clear spots(gh)

VENEZUELA 4939.5 with R. Amazonas, Puerto Ayacucho ID at 0300, 0411* after NAs, ex-R Continental Barinas on this fq (Jerry Berg, MA, HCJB Latest Catch 28/2)

VIETNAM Hanoi DS-2 on 7153.8 unlisted outlet, not Laos, from 1045 //4960 20/2, tho with slight delay. food for thought (Craig Seager, ARDXC EDXP via Thurman) So satellite fed to the South?

ZAMBIA ZNBC SW xmtrs missing from 4911, 6060, 7220, 7235, very irregular on 6165, maybe because of installation of two new 150-kW Chinese-made SW xmtrs (BBCM 16/2)

JAPAN [late info] R. Japan sneaked in some Jan QSYs incl first fqs from Yamata in extended bands! GS in JP 2100-2130 on 11665 ex-7295; EG 2100-2130 on 11685 ex-41mb 23/2 (Bob Padula, ARDXC via Thurman)

GEORGIA R. Georgia, 11910.1 in EG to Eu until 0900, not in GM as listed w/EG at 0800-0830 (Koutamanis 17/2 via Cumbre DX via Büschel) ancd toward Munich 0830-0900 on 11910.1, OC from *0755 (Büschel)

# SOME AMATEUR RADIO VOICE NETS & BULLETINS

Summer 1996

compiled by John Norfolk, non amateur

| Time UT | Freq kHz | Name; Notes [all nets assumed daily u.o.s.; all days UT.] |
|---|---|---|
| 0000 | 3750 | NORTHERN ONTARIO ARES. |
| | 3768 | GERATOL. "Worked All States." |
| | 3865 | DRAKE ANTIQUE & TUBE. Sun. |
| | 3865 | 3865 SWAP. Thu. Informal sessions possible on other evenings. |
| | 3866 | *COUNTY HUNTERS. Mostly winter but some summer activity possible. |
| | 3888.8 | GOOD SAM RV. Texas Chapter. |
| | 3905 | GULF COAST SIDEBAND TRAFFIC. Tue-Sun. |
| | 3910 | LOUISIANA EMERGENCY. Tue. |
| | 3920 | MID STATES SWAP. Tue. |
| | 3975 | IARN TALK PROGRAM. 90 mins. Live Mon, repeats other days. Simulcast on 14275. |
| | 3977.5 | AMATEUR RADIO UFO. Sun. ENAm. |
| | 3982 | NEBRASKA STORM. 0030 winter. |
| | 3987.5 | ARKANSAS EMERGENCY COMMUNICATIONS. Fri. 7285a. |
| | 3987.5 | ARKANSAS SECTION ARRL. 16th of month. |
| | 3990 | SUNBELT SERVICE. SE USA. |
| | 7175 | SOUTH JERSEY GROUP. ENAm. |
| | 7225 | *FRA. Thu. Puerto Rico. |
| | 7233.5 | *3905 CENTURY CLUB INC. "Worked All States." |
| | 7238 | TIMBER WOLF GROUP. E/CNAm. |
| | 7265.5 | OMISS. |
| | 7294 | *40 METER EYE BANK. |
| | 14177 | *#INT'L AMATEUR RADIO HOSTS. Mon after last Sun. |
| | 14190 | *CARIBBEAN DX. Tue. |
| | 14205 | *SOCIETY OF BROADCAST ENGINEERS CHAPTER 73. Mon after 2nd Sun. |
| | 28495 | FRESMAD. Sun. Fresno, Madera CA. |
| 0030 | 3729 | BRITISH COLUMBIA PUBLIC SERVICE. |
| | 3740 | ALBERTA PUBLIC SERVICE. |
| | 3873 | NORTH TEXAS ARES. Tue. |
| | 3873 | TEXAS ARES. Mon. |
| | 3922 | CONTINENTAL TEXAS TRADERS. Mon. |
| | 3965 | ALABAMA EMERGENCY. Wed. |
| | 7284 | GOOD SAM RV. Tue-Sat. Recreational vehicles. |
| | 14272.5 | #AYN RAND ADMIRERS. Tue after 2nd Mon; Thu after last Wed. |
| 0055 | 3970 | *EYE EMERGENCY/80 METER EYE BANK. |
| 0100 | 1860 | GATEWAY 160 METER. Thu. AM/LSB. |
| | 1892 | WORKED ALL STATES. |
| | 3737 | [unID Canadian]. Tue after 2nd Mon. |
| | 3840 | EAST COAST AMSAT. Wed. Satellites. |
| | 3843 | VHF WEAK SIGNAL GROUP. Tue. |
| | 3856 | ALPHA ALPHA UGLY. SE USA. |
| | 3918 | SAN JOAQUIN. Mon-Sat. WNAm. |
| | 3932 | GREAT LAKES EMERGENCY/TRAFFIC. |
| | 3935 | *CENTRAL GULF COAST HURRICANE. |
| | 3940 | OMISS. |
| | 3937 | FRIENDLY AR MISSIONS. WNAm. |
| | 3939 | *NEW MEXICO ROAD RUNNER |
| | 3959 | 40 OVER. Mon after 3rd Sun. SE USA. |
| | 3970 | WASHINGTON STATE AR TRAFFIC. |
| | 3972.5 | ADVENTIST AR. |
| | 3980 | OREGON EMERGENCY. |
| | 3985 | *75 METER INTERSTATE SIDEBAND. |
| | 3990.5 | *COLORADO RACES. Mon & Wed. |
| | 7238.5 | HAMS FOR CHRISTIANS MISSIONARY. Mon-Fri. WNAm. May ID as BFO, "Blessings For Obedience." 14330a. |
| | 14305 | *HAWAIIAN COCKTAIL. Hawaii, WNAm. |
| | 14309 | *WORLDWIDE WORLD PEACE. |
| | 14332 | *YL ISSB. Moonbeam session. |
| 0130 | 3865 | OHIO MASONIC FELLOWSHIP. Mon. |
| | 3916 | LIVE STEAM ROUND TABLE. Thu. |
| | 3970 | SOUTHERN COUNTRY COUSINS. |
| | 3975 | IARN TALK PROGRAM. Repeat of Mon 0000. Simulcast on 14275. |
| | 3978 | EXPERIMENTAL AIRCRAFT ASSOCIATION. Thu. |
| | 3990.5 | *EL PASO COUNTY RACES. Mon. Colorado Springs. |
| | 14287 | EMERGENCY RESPONSE RADIO. |
| | 28390 | EARS GET-TOGETHER. Tue. Edmond OK Amateur Radio Society. Start time approximate after VHF net. |
| 0145 | 1855 | W1AW. Simulcast on 3990 7290 14290 18160 21390 & 28590. |
| 0200 | 3753 | *2-80. US/Canada. |
| | 3782 | OVER THE HILL. |
| | 3840 | MID AMERICA AMSAT. Wed. Satellites. |
| | 3905 | *3905 CENTURY CLUB INC. "Worked All States." |
| | 3920 | ALASKA SNIPERS. |
| | 3950 | AR FORUM. Fri. |
| | 3950 | CHRISTIAN IDENTITY. Thu. |
| | 3950 | FREEMAN'S. Sat. |
| | 3950 | LIBERTY. Sun. |
| | 3960 | KENTUCKY EMERGENCY COORDINATORS. Fri. |
| | 3975 | GOLDEN BEAR. WNAm. |
| | 3989 | *COLUMBINE. Colorado & surrounding states. |
| | 3996.5 | NEVADA STATE RACES. Thu. |
| | 7238 | FLEET RADIO UNIT PACIFIC. WNAm. |
| | 7280 | EMERGENCY RESPONSE RADIO. |
| | 7290 | *HAWAII AFTERNOON. |
| | 14300 | *SEAFARER'S. Maritime Mobile. |
| 0215 | 1860 | GATEWAY 160 NEWSLETTER. Thu. AM. Time approximate after 0100 net. |
| | 3947 | VIRGINIA LATE. |
| 0230 | 3935 | SOUTHWEST TRAFFIC. |
| | 3940 | FLORIDA AMATEUR SIDEBAND TRAFFIC. |
| | 3972.5 | MIDWEST COUNTRY COUSINS. |
| | 3992 | ARIZONA TRAFFIC/EMERGENCY. 0200 winter. |
| | 7294 | SANDIA. WNAm. Trivia. |
| 0300 | 3856 | MISSION TRAILS. WNAm. |
| | 3985 | 11 O'CLOCK. ENAm. |
| 0330 | 3935 | ICE CREAM. |
| 0400 | 3890 | IARN TALK PROGRAM. Repeat of Mon 0000. Simulcast on 7295. AM. |
| | 14313 | *PACIFIC MARITIME. Roll call begins at 0430. |
| 0430 | 3870 | KM SWAP. Thu. California. AM. |
| 0445 | 1855 | W1AW. Simulcast on 3990 7290 14290 18160 21390 & 28590. |
| 0500 | 3933 | MOTLEY GROUP. Alaska & Yukon. |

0530 3905 *PACIFIC ARES. Wed. Hawaii.
0600 7085 *40 METER DX. Region 2 receive; Regions 1 & 3 transmit.
7185 *40 METER DX. Region 2 transmit; Regions 1 & 3 receive.
14287 *#ROUND TABLE.
0630 14313 *INT'L MARITIME.
0700 3973 BEFORE BREAKFAST CLUB. "Have a cup of BBC coffee!" is usual greeting.
7235 *#TRIPLE H.
0800 14150 *ARCTIC POLAR. Sun.
14315 *PACIFIC INTER-ISLAND. Maritime.
0845 3962 ADVENTIST AR.
0900 1860 GATEWAY 160 NEWSLETTER. Tue. AM.
3940 EARLY BIRD TRANSCONTINENTAL.
3973 BREAKFAST CLUB. Follows the Before Breakfast Club.
0930 3905 NEW ENGLAND WEATHER.
7284 SALTMINERS.
1000 3875 BIBLE FELLOWSHIP.
3975 IARN TALK PROGRAM. Repeat of Mon 0000. Simulcast on 14275.
3980 EASTERN BIBLE STUDY.
3990 ROOSTER. ENAm.
7238 ROTTEN APPLES GROUP.
7264 BUCK-A-ROO. Mon-Fri.
1030 3815 *#CARIBBEAN EMERGENCY/WEATHER.
3960 KENTUCKY REBEL. Mon-Fri.
7083.5 *PACIFIC RIM DX. Pacific 1030; Caribbean 1100; US 1130 on or near 7205-7220.
1045 3980 TENNESSEE EARLY PHONE. Mon-Fri.
1055 3940 FLORIDA PHONE TRAFFIC.
1100 3862.5 MISSISSIPPI MAGNOLIA SECTION. Mon-Fri except holidays.
3894.5 ARKANSAS PHONE. Mon-Sat.
3920 OMIK. Sun. E/CNAm.
3930 CHRISTIAN AR FELLOWSHIP. Mon-Sat.
3934.5 RATCHET JAW CLUB.
3970 EYE EMERGENCY. Mon-Fri.
3985 BADGER WEATHER. Wisconsin.
3995 GEORGIA CRACKER. Mon-Sat.
7228.5 RETIRED US MARINE CORPS. Sat.
7230 *#PACIFIC DX.
7233 INT'L RECREATIONAL VEHICLE. ENAm.
7238 CLASSROOM. Mon-Fri.
7238 ORCATS. Sun.
7265 OMIK. Sun. ENAm.
7288 THE 94 GROUP. ENAm. Start time uncertain.
14165 *W2MIG'S CARIBBEAN/ASIAN DX.
14220 *IOTA.
14283 *#CARIBBEAN TRAFFIC.
14300 *INTERCONTINENTAL TRAFFIC. 14313a.
14303 INT'L ASSISTANCE/TRAFFIC. 1130 winter.
14326 MYER DELNICK MISHPULCHA.
1130 3853 DARF/UCAN. Mon-Sat.
3890 IARN TALK PROGRAM. Repeat of Mon 0000. Simulcast on 7295. AM.
3940 FLORIDA ARRL INFORMATION. Sat.
7258 MIDWEST AR SERVICE.
1145 3920 KANSAS PHONE. Mon, Wed & Fri.
3970 EYE EMERGENCY.
3980 TENNESSEE PHONE.
7268 WATERWAY. ENAm. Maritime.

1200 3862.5 MISSISSIPPI MAGNOLIA SECTION. Sat, Sun & holidays.
3915 NORTH CENTRAL PHONE. Mon-Sat. Illinois.
3920 KANSAS MORNING WEATHER.
3940 SOUTH FLORIDA ARES. Sat.
3950 LITTLE TEN DOLLAR. Texas.
3950 MICHIGAN THUMB. Sun.
3959 SOUTH DAKOTA MORNING WEATHER. Mon-Sat.
3976 MIDWEST BIBLE. Adventist.
3993 OKLAHOMA TRAFFIC TRAINING. Sun.
3995 GEORGIA CRACKER. Sun.
3997 OKLAHOMA RACES ADMINISTRATIVE. Sun.
7237 MUFON. Sat. E/CNAm. Mutual UFO Network.
7248 BUCK-A-ROO PLUS. Mon-Fri.
7260 NAVY AR CLUB. 3865a.
14336 *COUNTY HUNTERS/MOBILE EMERGENCY. When band is open.
28390 *10 METER MARITIME. 6 hours.
1210 3923 WYOMING WEATHER. Mon-Fri.
1215 7055 *ONTARIO TRANS-PROVINCIAL. Daylight hours.
1230 3828 SMALL BUS. Sun. Tentative.
3835 QCWA CHAPTER 41. Sun. North Texas.
3905 DELTA 75 PHONE. Sun. Arkansas, Louisiana, Mississippi, Tennessee.
3920 QCWA CHAPTER 110. Sat. Kansas.
3930 NORTH TEXAS EMERGENCY. Sun.
3939 NEW MEXICO BREAKFAST CLUB.
3945 COLORADO WEATHER.
3955 SOUTH TEXAS EMERGENCY. Sun.
3960 KENTUCKY PHONE.
3983.5 NEBRASKA MORNING PHONE.
7289 WAG. Sun. CNAm. Tentative.
7290 ATV GROUP OF WESTERN NEW YORK. Sun.
14235.5 RGEE. Retired General Electric Employees.
14326 CHAVERIM INT'L. Sun.
14332 *YL ISSB. Early morning warm-up.
1300 3832.5 QCWA CHAPTER 49. Sat. Georgia.
3855 QCWA CHAPTER 63. Sun. Oklahoma City. USB.
3860 SUNDAY MORNING TAIL DRAGGERS GROUP. Sun. Oklahoma & surrounding states. Military pilots.
3980 SOUTH DAKOTA QCWA. Sun.
3900 ARKANSAS/OKLAHOMA SALVATION ARMY. 2nd Sat. 7285a.
3900 OKLAHOMA PHONE EMERGENCY. Sun. May ID as Oklahoma Phone RACES.
3910 CENTRAL TEXAS EMERGENCY. Sun.
3913 SHRINERS. Sun. CNAm.
3920 KANSAS PHONE. Sat-Sun.
3923 REGION 12 TRAFFIC.
3942 YOUNG LADIES' ROUNDUP. Thu.
3943.5 WEST GULF COAST EMERGENCY. Sun.
3950 NORTH FLORIDA ARES.
3950 WEST NEBRASKA TRAFFIC.
3955 SANTA FE RAILROAD. Sat. Texas.
3960 SOUTH DAKOTA WEATHER. Mon-Sat.
3975 IARN TALK PROGRAM. Repeat of Mon 0000. Simulcast on 14275.
3993.5 WISCONSIN RACES. Sun.
7240 WORLD GOSPEL MISSION. Sat.

7255 EAST COAST AR SERVICE.
7260 TIN CAN SAILORS. Wed. ENAm.
7265 OMIK. Sun. WNAm.
7270 ADVENTIST AR. Sun.
7275 40 METER TRADERS. Sun.
7283 MERCURY MISARKLA. Sat. Mercury ARC. Mississippi, Arkansas & Louisiana.
7292 ALL FLORIDA POWER SQUADRON. Tue. Recreational boaters.
7294 CENTRAL EMERGENCY. Mon-Fri.
14235.5 BATHROBE.
14247.5 #DISPLACED PEORIANS.
14260 *IOTA. Sat.
14280 20 METER SWAP SHOP. Sat. 9 hours.
14305 *14305 GROUP. Mon-Fri. DX contacts.
14323 20 METER INTERSTATE. Mon-Sat.
21260 *IOTA. Sun.

1310 3910 *INDIANA WET.
1330 3855 ILLINOIS PHONE. Sun.
3905 QCWA CHAPTER 109. Sun. Baton Rouge.
3910 *INDIANA TRAFFIC.
3913 NORTH STAR. Sun. Wisconsin. Swap.
3920 CENTRAL STATES TRAFFIC. Sun.
3922 BIG BEND EMERGENCY. Sun. Texas.
3937 NORTH DAKOTA WEATHER.
3983 WØIRZ MEMORIAL ARES. Sun. Nebraska.
3985 QCWA CHAPTER 55. Sun. Wisconsin.
7273 DAYTIME TEXAS TRAFFIC. Mon-Sat.
14275 *#BERMUDA. Sun.
14310 THE KNOTHEAD GROUP.

1400 1895 GOOSE RIVER. Sun. North Dakota.
3896 3900 CLUB. Sun. NCNAm. ARRL bulletins & general ham news.
3908 OMIK. Sun. CNAm.
3923 WYOMING PONY EXPRESS. Sun.
3928 COLORADO ARES. Sun.
3940 ILLINOIS EMERGENCY. Sun.
3945 COLORADO EMERGENCY. Sun.
3965 CONNECTICUT PHONE. Sun.
7237 SATURDAY MORNING SIDEBAND. Sat. CNAm.
7240 ANARC SWL. Sun. ENAm. Association of North American Radio Clubs.
7243 40 METER MOBILE EMERGENCY/COUNTY HUNTERS. ENAm.
7248 NO NAME. Mon-Fri. "Triple N."
7260 TIN CAN SAILORS. Wed. CNAm.
7262 PROFESSIONAL LOAFERS CLUB. Mon-Fri.
7268 ROCKY MOUNTAIN RV SERVICE. Mon-Fri. Mountain Time Zone.
7275 OLD JERRY JONES AMPLIFIER FELLOWS. Sat. Tube equipment.
7283 ARMORED FORCE. Thu.
7283 EXPERIMENTAL AIRCRAFT ASSOCIATION. Sat.
14226.5 *FAMILY HOUR. DX contacts.
14257 OLD CHINA HANDS. Mon & Thu.
14270 OLD FRIENDS. Sun.
14280 INT'L ASSOCIATION OF AIRLINE HAMS. Sun, Wed & Thu. 3 hours. Airline Pilots.
14305 ADVENTIST AR. Sun.
14310 THE OTTAWA GROUP.

1415 14307.5 ARMS CHRISTIAN FELLOWSHIP. Mon-Fri. Amateur Radio Missionary Service.
14308 MARCO. Sun.

1430 3972.5 OHIO SSB TRAFFIC.
7237 AIR FORCE FLYERS CLUB. Wed. CNAm.
7294 CHUBASCO. WNAm. Maritime.
14275 IARN. Mon-Fri. A directed net, not the talk program.
14282 FAA RETIREES. Mon.
14287 *DARF/UCAN. Sat.
14310 OVER THE HILL GANG.
14343 *DARF/UCAN. Tue.
21360 *ROYAL NAVY ARS. Sat, Sun. 28933a.

1455 3940 FLORIDA PHONE TRAFFIC.

1500 3815 ARKANSAS DX ASSOCIATION. Sat.
3923 WYOMING ARES/RACES. Sun.
7235 RADIO SWAP. Sun. CNAm.
7238 BAJA CALIFORNIA MARITIME.
7290 7290 TRAFFIC. Mon-Fri.
14237 GOOD SAM RV. Tue & Thu. Informal.
14262 DIAMOND STATE. Mon-Fri.
14265 *SALVATION ARMY EMERGENCY TEAM Mon-Fri.
14287 *INT'L HANDICAPPERS. Mon-Fri. Schedule varies on weekends.
14295 OMIK. Sun. Preceded by informal session.
14308 AIR FORCE FLYERS. Sun.
14316 *FOREIGN SERVICE. Sun.
14327 ALPHA CHARLIE. Sun.
14328 MASONIC FELLOWSHIP. Mon-Fri.
14332 *YL ISSB.
14345 70 CENTIMETER EME. Sat-Sun. Earth-Moon-Earth bounce communications in 430-450 MHz band.
24945 *#EUROPE/AFRICA 12 METER DX.
28420 *ROBERT E. GRANT UNITED LABOR AMATEUR ASSOCIATION. Sat.

1530 3890 IARN TALK PROGRAM. Repeat of Mon 0000. Simulcast on 7295. AM.
7265 SALVATION ARMY EMERGENCY TEAM. Sat. CNAm.
7280 REGION 5 TRAFFIC. Mon-Sat.
14242.5 DECATUR GROUP. Wed.
14262 BUCKEYE.
21416 *FOREIGN SERVICE. Sun.

1545 7235 WEST VIRGINIA MID-DAY.

1600 3860 OKLAHOMA DX ASSOCIATION. Sat.
7247.5 FLORIDA MID DAY.
7258 TIN CAN SAILORS. Wed. WNAm.
7277 FIREBIRD ARC. Mon-Sat.
14243 SUBMARINE VETERANS.
14290 OMISS. Mon-Sat.
14290 WEST VIRGINIA HILLBILLY. Sun.
14300 *MARITIME MOBILE.
14305 *SUNSHINE. Mon-Fri.
14308 INT'L RECREATIONAL VEHICLE. Mon-Fri. Morning session.
14310 *MARITIME MOBILE.
14318 TENACITY GROUP. Mon-Fri.
14325 *ATARI MICROCOMPUTER. Sun.
14327 *IBEW. Sat. Int'l Brotherhood of Electrical Workers.
14328 ELKS. Mon-Fri.
28616 *FOREIGN SERVICE. Sun.

1630 3940 REGION 8 TRAFFIC.
14290 HAAM. Sat. ENAm. "Friends of Bill W."
14292 *ALASKA PACIFIC. Mon-Fri. WNAm.

14340 *CALIFORNIA-HAWAII MARITIME. Mon-Fri.
14340 HAAM. Sun. WNAm. "Friends of Bill W."
14345 2 METER EME. Sat-Sun. Earth-Moon-Earth bounce communications in 144-148 MHz band.
28303 #CQ ALL SCHOOLS. Tue & Thu. Simultaneous east & west coast nets.
1645 7238 REGION 7 TRAFFIC.
7275 REGION 6 TRAFFIC.
1700 3860 MINNESOTA PHONE.
3915 W7BUN SEATTLE SWAP SHOP. Sun.
3975 IARN TALK PROGRAM. Repeat of Mon 0000. Simulcast on 14275.
7235 ARMY AIRWAYS COMMUNICATIONS SYSTEM ALUMNI. Mon, Wed & Fri. WNAm.
7240 HIGH NOON. CNAm.
7262 SPARCYL. Mon-Fri.
14192 DAYTON. Mon, Wed & Fri.
14240 *INT'L POLICE ASSOCIATION. Sun & Wed. Active & retired police officers. 21410a.
14243 FLEET RADIO UNIT PACIFIC.
14280 INT'L MISSION RADIO ASSOCIATION. Mon-Fri.
14282 20 METER AMSAT. Sun. Satellites.
14305 *AMERICAN COUNCIL FOR THE BLIND. Mon-Fri.
14313 *INT'L MARITIME.
14317 *ICOM USERS. Sun.
14323 *UNITED STATES POWER SQUADRON/CANADIAN POWER SAILS SQUADRON. Sat. Recreational boaters.
14328 ADVENTIST AR. Mon, Wed & Fri.
21360 OMISS.
1705 7280 MISSOURI HAM BUTCHERS. Mon-Fri.
1715 7270 NORTH CENTRAL PHONE. Mon-Sat. Illinois.
14240 WEST VALLEY VACATION. Mon & Fri mid May to mid Oct. WNAm.
1730 3970 IOWA 75 METER. Mon-Sat.
3980 NEBRASKA CORNHUSKER.
7232 NORTH DAKOTA WEATHER.
7253.5 CENTRAL STATES TRAFFIC. Mon-Sat.
7282 REGION 9 TRAFFIC.
14345 PACIFIC AREA TRAFFIC.
1745 3930 REGION 2 TRAFFIC.
3948 REGION 1 TRAFFIC.
7243 REGION 4 TRAFFIC.
1800 7227 QCWA CHAPTER 90. Sun.
7233 MASONIC FELLOWSHIP. Sun. ENAm.
7235 40 METER TEXAS TRADERS. Sun.
7240 COLORADO HIGH NOON. Mountain Time Zone.
7273 DAYTIME TEXAS TRAFFIC. Sun.
7282 NEBRASKA 40 METER.
7290 7290 TRAFFIC. Mon-Fri.
14230 *INT'L VISUAL COMMUNICATIONS ASSOCIATION. Sat. Slow Scan TV.
14285 *ROTARY. Sun.
14287 *VA SERVICE. Mon-Fri.
14305 *CONFUSION. Mon-Fri. WNAm.
14309 TVRO USERS/EXPERIMENTERS. Sun.
18140 OMISS. Sat-Sun.
21345 *#FAMILY HOUR DX.
1815 7260 WYOMING JACKALOPE. Mon-Sat.
1830 7248 TEXAS DISTRICT 11 RACES. Sun.
7262 MISSISSIPPI BAPTIST. Sun.
7272 BEEHIVE UTAH.
7275 NAZARENE AR FELLOWSHIP. Mon-Fri.
14263 *FAMILY MOTOR COACH ASSOCIATION YL. Motor homes.
14340 *MANANA MARITIME MOBILE. Mon-Sat.
21440 WESLEYAN CONNECTION. Sun.
1845 7277.5 REGION 10 TRAFFIC.
7280 REGION 5 TRAFFIC. Sun.
1900 3635 WDXC. Wed. World DX Club in the UK. Reception unlikely in NAm.
3905 OKLAHOMA BAPTIST DISASTER RELIEF. Sun. 7277a.
7248 TEXAS RACES. Sun. Statewide 2nd & 4th; District 32 others.
7268.5 NOON TIME. WNAm.
7270 HANDICAPPED INFORMATION. Mon-Fri. CNAm.
14240 GOOD SAM RV. Sun. Recreational vehicles.
14255 FLYING BOAT ARS. Sun & Wed. Sea planes.
14263 *FAMILY MOTOR COACH ASSOCIATION. Motor homes.
14287 GENIE ROUND TABLE. Sun. 21387a.
14293 CHRISTIAN AR FELLOWSHIP. Sat. 28395a.
14305 *14305 GROUP. Mon-Fri. DX contacts.
14308 TUSKEGEE AIRMEN. Sun. World War II Army Air Corp personnel.
14347 *EX-G WORLDWIDE RADIO CLUB. Sun. Former G call (Great Britain) hams.
21385 NAZARENE AR FELLOWSHIP. Sun.
21390 *HALO. Mon-Fri. N/SAm. EG/SP.
28309 *WORLDWIDE WORLD PEACE.
1930 3930 REGION 2 TRAFFIC.
3948 REGION 1 TRAFFIC.
7240 SWAP SERVICE. Sat-Sun. WNAm.
7243 REGION 4 TRAFFIC.
14290 BOY SCOUTS OF AMERICA INT'L. Sun.
14345 CENTRAL AREA TRAFFIC.
28383 #NAZARENE AR FELLOWSHIP. Sun.
2000 3913 REGION 3 TRAFFIC.
3947 VIRGINIA PHONE.
7268.5 KADIDDLEHOPPERS. Begins with check ins from the Pac NW, then down the coast, finally towards the east. Changes net controls at 4 pm PT.
14160 *ET DX. DX contacts.
14255 BROADCASTERS. Mon-Fri.
14255 TIN CAN SAILORS. Sun.
14263 *COLLINS USERS. Sun.
14280 *MARCO. Sun.
14287 ARMY AIRWAYS COMMUNICATIONS SYSTEM ALUMNI. Wed & Fri.
14294 *ROYAL NAVY ARS. Sun.
14297 ITS. Sat. Int'l Tesla Society, Colorado Springs. Science & technology, with emphasis on Nikola Tesla (1856-1943), Serbian born American electrical engineer, physicist, & inventor, "the true father of radio."
14305 NAZARENE AR FELLOWSHIP. Sun.

14347 *QCWA. Sun.
21390 *INTER-AMERICAN. Mon-Fri. N/SAm. EG/SP.
21405 ADVENTIST AR. Sun.
2030 1860 GATEWAY 160 NEWSLETTER. Sat. AM.
3910 SPARC. Mon. Suffolk Police ARC of Long Island, New York.
3940 REGION 8 TRAFFIC.
3972.5 OHIO SSB TRAFFIC.
7233.5 HAMS FOR CHRIST. Mon-Sat. CNAm.
7248 FRIDAY AFTERNOON SWAP SHOP. Fri except Good Fri. WNAm.
7280 REGION 5 TRAFFIC.
14287 ASSOCIATION OF FAIN CHURCHES. Sun. Missouri Mormons.
2045 7225.5 REGION 10 TRAFFIC.
2100 3921 UPPER PENINSULA. Michigan, Wisconsin.
3975 IARN TALK PROGRAM. Repeat of Mon 0000. Simulcast on 14275.
7240 NORCARS. Mon-Fri. North Central Amateur Radio Service. Weather.
7282 REGION 9 TRAFFIC.
14226.5 *BUTTERFLY. DX contacts.
14247 *247 DX. DX contacts.
14250 SWAN. Sun.
14308 *ASSOCIATION OF PUBLIC SAFETY COMMUNICATIONS OFFICERS. Sun.
14308 INT'L RECREATIONAL VEHICLE. Mon-Fri. Afternoon session.
2115 3855 ILLINOIS PHONE. Mon-Fri.
2130 3900 OKLAHOMA PHONE. Mon-Fri.
3905 ILLINOIS ARES. 1st & 3rd Sun.
3910 *INDIANA TRAFFIC.
3928 ARKANSAS MOCKINGBIRD. Mon-Fri.
3943 REDDY KILOWATT. Mon-Fri. SE USA.
14277 FIREBIRD ARC. Wed.
14345 PACIFIC AREA TRAFFIC.
2150 1860 GATEWAY 160 NEWSLETTER. Sun, Tue, Wed. AM.
2200 3865 WEST VIRGINIA PHONE.
3900 OKLAHOMA TRAFFIC/WEATHER. Mon-Sat.
3905 DELAWARE EMERGENCY PHONE. Sat.
3918 DB. Fri. Michigan. "Dog Biscuit."
3920 MARYLAND EMERGENCY PHONE.
3940 FLORIDA AMATEUR SIDEBAND TRAFFIC.
3945 TEENAGE. Mon-Fri.
3947 VIRGINIA SSB.
3965 CONNECTICUT PHONE. Mon-Sat.
3975 GEORGIA ARES ADMINISTRATION. Sun.
3977 FIREBIRDS. Mon. 7277a.
14325 ARMORED FORCE AR.
21309 *WORLDWIDE WORLD PEACE.
21402 *MARITIME MOBILE.
21412 *PACIFIC MARITIME MOBILE.
2215 7233 REGION 12 TRAFFIC.
7238 REGION 7 TRAFFIC.
2230 3742 ONTARIO PHONE.
3775 CJ JUNCTION.
3815 *#CARIBBEAN EMERGENCY/WEATHER.
3845 SOONER TRAFFIC. Mon-Sat. Oklahoma.
3860 MINNESOTA PHONE.
3890 IARN TALK PROGRAM. Repeat of Mon 0000. Simulcast on 7295. AM.
3905 DELAWARE TRAFFIC. Mon-Fri.
3923 NORTH CAROLINA EVENING.
3933 POTTER COUNTY ELECTRIC TWO-WAY. Texas. Informal.
3950 NORTH FLORIDA PHONE.
3963 MEOW. Missouri Emergency Operations & Weather.
3970 IOWA 75 METER. Mon-Sat.
3970 IOWA TRAFFIC & EMERGENCY. Sun.
3978 TEXAS T.O.M.
3985 WISCONSIN SIDEBAND.
7278 REGION 6 TRAFFIC.
2245 3780 QUEBEC SECTION. Canada. EG/FR.
3972.5 OHIO SSB TRAFFIC.
3990.5 IOWA RACES. 1st Mon.
2300 3870 SOUTH DAKOTA NEO SESSION.
3898 TRADERS. Mon & Fri. SE USA.
3905 ILLINOIS SIDEBAND.
3907 COASTAL CAROLINA EMERGENCY.
3910 *INDIANA TRAFFIC.
3915 SOUTH CAROLINA SSB.
3920 KANSAS WEATHER.
3930 B&O RAILROAD ARC. Fri.
3933 PANHANDLE TRAFFIC/EMERGENCY. Texas.
3935 WOLVERINE. Michigan.
3940 MID-STATES WEATHER. Midwest US.
3953 MICHIGAN TRAFFIC.
3960 KENTUCKY TRAFFIC.
3963 MISSOURI SSB.
7063.5 *SANDBOX. Canada.
7200 *#COMMONWEALTH OF INDEPENDENT STATES. Fri. UN9LX. 7043a (not for Region 2).
7238 ROTTEN APPLES GROUP. E/CNAm.
7278 REGION 6 TRAFFIC.
14256 *256 GROUP. DX contacts.
14328 PHILADELPHIA SHRINERS CHILDREN'S HOSPITAL. Thu.
2315 3862.5 MISSISSIPPI PHONE.
2330 3775 QUEBEC RADIO CLUB. Canada.
3873 TEXAS TRAFFIC.
3877 MAGNOLIA.
3900 MONTANA TRAFFIC.
3910 LOUISIANA TRAFFIC.
3920 KANSAS SIDEBAND.
3923 TAR HEEL EMERGENCY. North Carolina.
3925 GULF COAST SIDEBAND.
3937 NORTH DAKOTA DATA.
3938 NORTH CAROLINA SSB.
3945 STANDARD SWAP SHOP. Wed. SE USA.
3947 VIRGINIA PHONE.
3963 FLEET RADIO UNIT PACIFIC. Wed. ENAm.
3965 ALABAMA TRAFFIC.
3975 *GEORGIA SSB.
3980 TENNESSEE PHONE. Mon-Sat.
3987.5 ARKANSAS RAZORBACK.
7240 TUBES THAT GLOW IN THE DARK. Sat-Sun. WNAm. Tube equipment.
7282 MOONLIGHTERS. SE USA.
14236 *INDXA. Not Wed. Int'l DX Association. DX QSL info.
2345 3923 WYOMING COWBOY. Mon-Fri.

STATEWIDE EMERGENCY [any frequency may be used but check these first]: Alabama 3965 7243; Alaska 3920 5167.5 (Alaska only) 14292; Arizona 3973 3992 7273; Arkansas 3987.5 7285; California

3905 3913 3945; Colorado 3928 3945 3990.5 7235; Connecticut 3965; Delaware 3905; Florida 3940 3950 7247.5 7254; Georgia 3975; Hawaii 3905 7290; Idaho 3990; Illinois 3905 3940; Indiana 3910; Iowa 3970 3990.5; Kansas 3920; Kentucky 3960; Louisiana 3910 3925 3935 7235 7280; Maine 3940; Maryland 3920; Massachusetts 3915 3937; Michigan 3935 3932; Minnesota 3860; Mississippi 3862.5 3945 7245; Missouri 3963; Montana 3910 3947; Nebraska 3982 3983.5 7281; Nevada 3996.5; New Hampshire 3862 3943; New Jersey 3950; New Mexico 3939; New York 3955 3993 7255 7245; North Carolina 3923 3927; North Dakota 3937 7232; Ohio 3875 3972.5; Oklahoma 3900; Oregon 3980 3993.5; Pennsylvania 3917 3983 7272; Puerto Rico 3873 3940 7234.5 7238.5; Rhode Island 3915; South Carolina 3993.5; South Dakota 3870; Tennessee 3980; Texas 3873 3910 3922 3930 3933 9355 3972 7248 7272; Utah 7272; Vermont 3976; Virginia 3910 (Alpha) 3947 (Bravo); Washington 3987; West Virginia 3865; Wisconsin 3860 3985 3993.5 7277; Wyoming 3923.

RACES/MILITARY EMERGENCY CALLING & COORDINATION: 3997.

FCC ALLOCATIONS FOR RACES VOICE: 1975-2000 3930-3980 3984-4000 7245-7255 14220-14230 14331-14350 21228-21267 28550-28750 29237-29273 29450-29650.

ARRL REGIONS: 1: New England states. 2: New Jersey, New York. 3: DC, Delaware, Maryland, Pennsylvania. 4: Florida, Georgia, North & South Carolina, Puerto Rico. Virginia, Virgin Islands. 5: Alabama, Arkansas, Louisiana, Mississippi, Oklahoma, Tennessee, Texas. 6: California, Guam, Hawaii, Nevada. 7: Alaska, Alberta, British Columbia, Idaho, Montana, Oregon, Washington. 8: Michigan, Ohio, West Virginia. 9: Illinois, Indiana, Kentucky, Wisconsin. 10: Iowa, Kansas, Manitoba, Minnesota, Missouri, Nebraska, North & South Dakota, Saskatchwean. 11: Eastern Canada. 12: Arizona, Colorado, New Mexico, Utah, Wyoming. Central: Regions 5, 9, 10. Eastern: Regions 1-4, 8. Pacific: Regions 6, 7, 12.

AM CALLING: 14286 7290 3885.

CANADIAN MARITIME CALLING: 14140.

CHINA EMERGENCY: 14333.

80 METER DX WINDOW: 3790-3800.

FIELD DAY: last full weekend in June.

HEALTH/WELFARE: 14280 14268 7282 7268 3975.

HURRICANE WATCH CARIBBEAN: 14283 3815.

HURRICANE WATCH GULF OF MEXICO: 7247 3935.

HURRICANE WATCH NE USA: 3960.

HURRICANE WATCH WESTERN HEMISPHERE: 14325.

INT'L 6 METER DX for reporting 50 MHz band openings: 28885 21440.

IOTA: 28560 24950 21260 18128 14260 7155 3765.

NAT'L RADIO CLUB: 3840.

QRP [low power] CALLING: 28385 21385 14286 7285 3985 1910.

SLOW SCAN TELEVISION: 28680 21340 14230 7171 3845.

10 METER PROPAGATION ALERT: 28885.

UN RADIO READINESS: 14275 14268.

VENEZUELA EMERGENCY: 7090.

WA3NAN SPACE SHUTTLE AUDIO RELAY Goddard ARC, Greenbelt Maryland: 28650 21390 14295 7185 3860.

*: Nets known or thought to remain at the same UT time all year. All others should be one hour later until April 7 unless otherwise indicated. #: Info may not be current. a: alternate freq. ARES: Amateur Radio Emergency Service. RACES: Radio Amateur Civil Emergency Service.

Most nets last 30-60 mins.; a few are longer (DX & maritime nets can run for hours). If there is little or no traffic nets can close after only 5-10 mins. (The word "region" in traffic nets named above refer to ARRL regions within the US & Canada, not ITU regions.) Some are preceded &/or followed by informal "call-in" sessions. Due to the uncertainty of some of the times given on some sources, plus unpredictable schedule changes, it is possible that some nets may start at times other than what is given, or be on different days. Operation of nets on higher frequencies may be suspended or irregular during low sunspot periods. Some nets may not meet on holidays.

Transmissions below 10000 are lower sideband; above, upper. Any variations are noted in the net listing.

Most listings are from monitoring in central Oklahoma. Other sources: via RIB, DXLD, NASWA JOURNAL, MONITORING TIMES, CQ, QST; WORLD OF RADIO, DX PARTY LINE, HAM RADIO TODAY; W1AW, IARN & GATEWAY 160 bulletins.

DARF/UCAN: Disciples AR Fellowship & United Church Amateur Network.

FLEET RADIO UNIT PACIFIC: Former, current & retired personnel of the Naval Security Group.

GATEWAY 160: WAØRCR Wentzville Missouri. Newsline, RAIN [Radio Amateur Information Network] dial-up, etc. THIS WEEK IN AMATEUR RADIO live Sat 7:00 pm CT, repeats other days. Houston Area Amsat Information Network live Sun 10 pm CT, repeated Tue & Sat 9 pm CT. Length varies depending on time of year & material available for broadcast. Some airings may be canceled if no control operator is available.

IARN: K1MAN International Amateur Radio Network, Belgrade Lakes Maine. IARN frequencies may be used for emergency traffic if needed.

IOTA: Islands on the Air.

MARCO: Medical Amateur Radio Council. Medically-oriented amateurs (physicians, dentists, veterinarians, nurses, therapists, etc).

OMIK: OMIK Amateur Electronics Communications Association.

OMISS: OM Int'l Sideband Society.

ORCATS: W9ZMR Chicago. Old Time Radio Collectors & Traders.

QCWA: Quarter Century Wireless Association. Members have been hams for 25 years or longer.

W1AW: American Radio Relay League, Newington Connecticut. Bulletin runs 5-10 mins.; DX reports UT Fri. In a communications emergency, monitor for W1AW on the hour. Station is closed on New Year's Day, President's Day, Good Friday, Memorial Day, Independence Day, Labor Day, Thanksgiving & the following Friday, Christmas.

YL ISSB: YL International SSB Communications System. Emergency traffic, social contacts, occasional DX contacts. Usually active when band is open.

"WHAT'S THE FREQUENCY, KENNETH?"

First, clearing up some loose ends: I finally found a copy of the 1995 Amateur Radio Callbook and I was able to confirm that the call letters I gave for Georgia ham Donald Simpson in recent issues was indeed incorrect. It is KO4TA, not KL4TA. But at least I did have the correct spelling for K1MAN. Incidentally, the call book uses the same maps found in The World Radio TV Handbook; they too have Cyprus Creek in Alabama instead of South Carolina.

Have you noticed that nearly every major ham group or publication are located in New England or Long Island? In addition to K1MAN/IARN, there's the ARRL in Connecticut, Wayne Green and his 73 Amateur Radio Today in New Hampshire, and CQ Publications on Long Island. Perhaps their proximity to each other contributes to their constant bickering, especially Baxter vs. the ARRL, Baxter vs. Green, Green vs. Baxter, Green vs. the ARRL. It reminds me of the legends in the science fiction world of the feuds between the early science fiction fans in the northeast in the 1930s and 40s. Alliances were constantly formed then broken up due to power struggles; attacks in print and lawsuits were common. I had been buying Green's magazine to see if he would print anything on the OKC bombing, but apparently he can't bear to give up any of his precious space for his long and rambling editorials. He constantly tells his readers how the ARRL wrecked ham radio in the 1960s when a proposal on incentive licensing--which he once told the Best of 75 Meters group would have limited General class hams to a small segment of the 160 and 10 meter bands only--supposedly scared thousands of hams out of the hobby, who dumped tons of used equipment on the market, which meant that nobody was buying new equipment, and that drove most of the US ham equipment manufacturers and dealers out of business. As for Baxter's and Murdock's reason for their bitter hatred of the ARRL, one can only guess. They remind me of a spoiled child that's trying to get the attention of his non attentive Daddy. The more Daddy ignores him, the louder and more arrogant Baby gets. ARRL does ignore IARN, but why not? QST is intended to keep ARRL members informed of ARRL activities, not IARN's. You know, I once thought about becoming a ham, many years ago, but there's no way in Hades I would now, not with the likes of these on the airways. But I like to listen...

Onward now to K1MAN and a report first broadcast on WORLD OF RADIO last November:

Bob Thomas in Connecticut says "Are you listening to Glenn Baxter K1MAN Sundays at 0000 UT, sometimes fifteen minutes late, on 3975 LSB? It's 'Hamgate II.' Alleged conspiracy by ARRL, CBS News and the FCC to revoke his ham radio license. CBS News alleges to have paid K1MAN for his services, slightly over $2000, an apparent violation of rules. Checks never cashed or found. K1MAN, at Long Point Lodge, Belgrade Lakes, in Maine...It's a near soap opera, lawsuits all around, felonies alleged."

On December 8 at 0127 I punched in 3975 and caught K1MAN in the middle of an argument with a caller about his broadcasting. Baxter claims to have spent $1500 of his own money on Hurricane Marilyn. IARN sent 12 people to St. Thomas with plane tickets donated by American Airlines--the first time in amateur radio history that an airline donated tickets for such a purpose--and spent $80,000 in donated money. He mentioned the Maia petition and the vote at the Dayton Hamvention which was "100% against" then he added "only one person voted for it." (So it was only 99.9% against.) A few months ago he claimed "nearly 6000" members for IARN but here the number was back down to 5000. The next evening, while monitoring 3894, I heard that K1MAN's caller was the net control for the Saturday evening 3977.5 UFO net, who made some very bizarre comments, apparently before I tuned in.

At 1500 January 14 IARN was running a Newsline bulletin that was several months old. Glenn Baxter and Chris Murdock mocked Newsline's Bill Pasternak and RAIN's Hap Holly, calling them "the Muppets of amateur radio." But that doesn't stop Baxter from broadcasting their services without their permission and over their objections! They then called the ARRL leaders "the Three Stooges of amateur radio." Baxter wants to take over the ARRL by getting IARN members to run for the various directors positions. All he needs, he says, is to get nine elected "to dominate the league and we can take it over and change it into what it really should be." On January 27 at 1500 I copied the current IARN schedule, which is printed in the ham net section. There is now a directed net, not the taped talk show, weekdays at 1530 on 14275. Although I did not hear this remark clear enough to fully copy it, it sounded as if they are now claiming that FEMA is part of the conspiracy to destroy IARN! During another repeat, at 1837, Chris Murdock did call FEMA "the civil government in waiting" for the USA. Incidentally, one of the voices IDing for K1MAN is Ian McFarland's, recorded years ago.

Checking 3950 UT November 4 at 0330 to see what the usual gang of idiots were up to, someone was playing music. Between selections, one ham (apparently not the one playing the music) ranted and raved to someone named Jim, inviting him to have a heart attack and die right there and then. Another started making racist remarks. And to think there were those who attacked gh's Monitoring Times article of a few months ago for calling 3950 a "hate net." What else would one call it? Well, I'll admit that it's only a small number causing all the trouble, but it only takes a few malcontents to taint the reputation of an entire group. (There are several groups that can be found on 3950 at various times, such as those in Florida, that should not be grouped

with the so-called "current affairs/alternative viewpoints" group, as they prefer to call themselves. One day during the week of November 13, the Floridans were trying to conduct their QSOs but were continually interrupted and mocked by someone who didn't care for what they were saying.)

In my notes on monitoring Hurricane Marilyn traffic in the RIB 150 net column, I wrote that the UN net control did not know what frequencies were being used for traffic for Puerto Rico. In the November 1995 QST, Puerto Rico section manager Guillermo R. Schwartz, KP4DDB, writes "Our primary ARES frequencies are 7234.5 and 3873 with backups of 7238.5 and 3940." For Hurricane Luis, he wrote "Our neighboring island suffered much. We can continue offering our help by bridging traffic with the mainland. Two very active frequencies are 3815 and 7165 kHz."

The Amateur Radio Newsline of November 18 via THIS WEEK IN AMATEUR RADIO via Gateway 160 reported that the Heard Island DXpedition [DXLD 45, page 39] has been delayed until next year. An article on Heard Island can be found in the November 1995 CQ, written by Chod Harris, VP2ML. In his January 1996 column, which spotlights Antarctica, Harris writes that the DXpedition was delayed due to problems with their chartered boat, which did not offer an adequate safety margin for their needs. Harris also says that the first two months of the year are the best times for DXers to work stations in the Antarctic region, and the Scott Base station at the South Pole is workable all year; check for it running phone patches into the US at the top part of the 20 meter SSB band in early evening local time. In mid February, a Newsline item said Mark, KC4AAC, can be heard Thursdays (UT Fridays?) after 0000. "Mark is more than willing to chat between phone patches and after." But what's the frequency, Kenneth?

If you want to listen to Newsline but can't get good reception of Gateway 160 1860 kHz or can't stand the current antics of K1MAN and his circus, an alternative is the ORCATS Old-Time Radio Collectors and Traders Society Net Sunday mornings on 7238. Newsline is usually heard during the final hour between 8-9 am CT. On WORLD OF RADIO #829, gh reminded us of the Gateway 160 Tuesday morning airing which starts at 4 am CT and lasts about 2-2½ hours.

Occasionally I hear different IDs for the same net. On UT November 29, I heard an ID for a BFO (Blessings for Obedience) Missionary Net on 7238.5 at 0251. The net control had just returned from New Zealand where he helped in getting a Pacific Net started called BFO New Zealand. There was a ship, the Blue Spirit, which was about to sail to the Virgin Islands and whose Captain was a ham and a member of the group. Later, he said that they were on 40 meters now that their primary frequency (14330) was more or less dead, Mondays through Fridays. 14111 LSB is their packet frequency. However, 24 hours later I caught them beginning shortly after 0200 and this time the ID was The Hams for Christians Missionary Net. The net control this evening was in Las Vegas, Nevada and was very weak, and most of the checks ins were inaudible here in Oklahoma. On UT December 5 I was monitoring at 0330 when they were wiped out by Trans World Radio from an unannounced location in English on 7235.

I usually check the Central Oklahoma Chapter 63 QCWA Sunday mornings on 3855 USB (not LSB) for the ARRL propagation and other bulletins. On February 18, after the bulletins ended at about 1427, I started scanning and found another group on 3846.5 USB, although the net control was the only one audible (and just barely), and he too was IDing as Central Oklahoma QCWA Chapter 63! Is this a renegade group with a competing net? It wasn't heard the following week, so the exact nature of this second group is still unknown to me.

On UT December 5 at 0025, John, KC3AU in Scranton, PA, was "calling all Christian Amateurs" on 3956. It was a general call to anyone interested in Bible studies, readings, etc. He called it Christian Amateur Radio and at first I assumed that he may have been trying to establish a new net, but he told a contact that they had been doing this for the past 16½ years and was on the air when propagation permits. This may not be a net in the sense of meeting on a regular basis on the same frequency, so they could conceivably pop at any time. [Recently, I've noticed that the 6 pm Texas Panhandle Traffic and Emergency Net on 3933 being interfered with occasionally by a ham who would suddenly come on frequency and start reading from the Bible.]

Programs concentrating on amateur items are few and far between, but in addition to HAM RADIO TODAY, HAM RADIO AND MORE, and the crap out of Havana, there is Radio Bulgaria's BULGARIA CALLING on weekends. Although there are a few shortwave broadcast items, usually outdated, most of the program is ham oriented.

In early December, HAM RADIO AND MORE was carried at its live time Sunday 2305 on WWCR 5065. It ended after two weeks but should now be heard at that time on 7435. The first Sunday of the month is "Ragchew Sunday," open topics. Host Len Winkler wants to see a "written only General license" where a person who passes the written exams for General, Advanced and Extra, but not the 13 words per minute code, would receive a "written only" General class license. His intention is to get the techs an incentive to upgrade and get on the HF bands, as he feels that if more hams are on the HF bands, the greater the chances that they may be expanded, whereas as if they don't, they may lose part or all of them. However, ITU regulations require amateurs using frequencies below 30 MHz to know code, and an item in the January 1996 QST says that the WARC-95 conference, which concluded on November 17, rejected a proposal from New Zealand which would have eliminated this requirement. They did agree to include consideration of the amateur regulations on the provisional

agenda for the 1999 WARC. Another preliminary agenda item for 1999 deals with the possibility of increasing the available spectrum for HF broadcasting, particularly between 4 and 10 MHz, which raises concern not only with regard to the 40 meter ham band but the top end of 75 as well, which is already allocated to broadcasting in Regions 1 and 3.

Exactly how many US hams are members of the ARRL? In the January 1996 QST Section News, the Northern New Jersey section claims the highest number of hams, percentage wise, with 33.69% of licensed hams being members. "The only other section that even came close is Connecticut, with 33.15%." Nationwide, the figures given are 159,739 members out of a total ham population of 644,487, or 24.79%.

A two part item on a late January RAIN REPORT (via Gateway 160) profiled the 247 DX group. Founded in 1991 by Alan Strauss, WA4JGK, the 247 group is a splinter group of the 256 group, a DX net that only wanted rare DX, such as the Indian Ocean, while Strauss was more interested in other parts of the world such as South America, Europe, etc. The net first met on 14236 along with the INDXA group, which only gives out QSL info. A fourteen month squabble over who should give out QSL info led to Strauss' group moving to 14247, a frequency once used by another net co-founded by Strauss, El Groupo. QSL info starts to be given out at 2000, with the official start time at 2100, although it varies depending on when the DX starts coming in. The net averages 15-30 DX stations per night.

One ARRL publication new at Radio Shack is "The North American Repeater Atlas" 1995/6 edition by Bob Martin, N7JXN (catalog #62-2423, $9.99). It consists of maps of all states, with stats on the number of hams, call area, state nickname, highest point (but not the lowest point), state capitals, number of counties/ parishes, and repeaters in the 2 meter and 220, 440, 900 MHz and 1.2 GHz bands. It also covers Canada, Mexico, Central America and the Caribbean. Plus: maps for selected US metropolitan areas with 2 meter repeater frequencies (but not their physical location), linked repeater systems in Colorado, California, Pacific Northwest and Arizona/New Mexico, and 10 meter repeaters. The 6 meter (50 MHz) band is not mentioned. The owner's manual for the new DX-394 says that Radio Shack also sells the ARRL Amateur Radio Handbook, but I have yet to verify that. Perhaps that and other ARRL publications will be part of their new special order service.

If you're looking for a book that covers all aspects of amateur radio, check out the CQ Amateur Radio Almanac. I haven't seen the 1996 edition yet, but the 1995 edition (edited by Doug Grant, K1DG) contains an overview of amateur radio history, FCC rules and regulations, worldwide amateur allocations, international call signs, propagation, ham radio in selected countries, satellites, publications, dealers, WWV/WWVH/WWVB info, 17 azimuthal equidistant maps with 8 centered on US cities, and--well, about the only thing it doesn't have is a list of amateur radio nets. Price is $20; check CQ magazine for more info if not at your local bookstore. The 1995 edition also has reproductions of autographed photographs of Priscilla Presley, N6YOS and Patti Loveless, KD4WUJ--yes, the Priscilla Presley and the Patti Loveless. Some years ago on WORLD OF RADIO, there was an item about Garry Shandling and a quote from his TV program ("HCJB in Quito, Ecuador, we salute you" or something like that). I believe a follow up said that Shandling was a ham but the CQ Almanac writes "KD6OY insists that his name is really Garry Shankling, not Shandling, even though he lives in Los Angeles." [The call book says Shandling.]

A SHAMELESS PLUG. Yes, Kenneth, I know this has nothing to do with radio (although it does feature a "radio orchestra"), but if you are tired of the crass commercialism of The Three Stooges--excuse me, The Three Tenors--you may want to check out a CD by a real Tenor, my Capitol Hill High School classmate (Class of 1970) Chris Merritt! "The Heroic Bel Canto Tenor" contains the first ever recording of Rossini's "Cantata in Honour of Pope Piux IX" as well as arias by Rossini and Donizetti. Chris is better than Domingo, more exciting than Carreras, but not quite as heavy as Pavarotti! The Munchner Rundfunkorchester is conducted by John Fiore (Philips 434 102-2 PH).

STOP THE PRESS: I didn't notice the TV listing for the movie mentioned below until I had typed the previous pages, which is why this appears here: On February 25, while monitoring the Oklahoma Phone Emergency Net on 3900, one check in mentioned a net about "those involved in the Army Air Corp during World War II." The name was gargled but the time and frequency was not: Sundays at 2 pm on 14308. I checked and, at 2004, heard an ID for the Tuskegee Airmen Net, which was the last net listing to be entered before typing. Later, I noticed that HBO was running during the month of February a made for cable movie called "The Tuskegee Airmen" which TV Guide describes as an "inspiring saga of the US military's first African-American fighter pilots, battling bigotry and the Nazis during World War II."

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MEXICAN AIRCHECK TAPE FROM TWO 1995 WORLD OF RADIO PROGRAMS, RECORDED BY GH ALONG THE BORDER, LOTS OF NICE MUSIC, JINGLES, IDS, MANY IN FM QUALITY, FROM TAMAULIPAS, CHIHUAHUA, ALSO UNUSUAL TEXAS STATIONS. C-60 CASSETTE IN STUDIO-QUALITY DUB, US$12 POSTPAID WORLDWIDE FROM GH, BOX 1684, ENID 73702

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# AUSTRALIAN DAYTIME SUMMER SHORTWAVE RECEPTION
## The Asian and African Modes

**by Bob Padula**

### INTRODUCTION

Back in January 1959 (that's about 37 years!) I was hearing the Internal Service of the South Adrican Broadcasting Corporation on 7275, at around 0300 UTC, which was 1pm here in Melbourne, slap bang in the middle of summer. My receiver was a dual-wave five valve set, with a 30m long wire antenna (about 10m high), and my location was Auburn, a Melbourne suburb, some 8 km from the city centre.

The QSL came back in July 1959 via surface-mail, and at the time I didn't really consider the reception to be unusual or out of the ordinary. In those days, there was no ARDXC or any form of orderly, structured, guided DXing movement in Australia, and the very few hobbyists at the time battled their own way through the DXing hobby. The ARDXC was several years into the future, and we relied on the two New Zealand Clubs for information and interchange of ideas, acknowledging that shortwave reception and patterns 2500 km across the Tasman were quite different to Australian conditions.

Many years later, in January 1975, some of us "discovered" what we termed the "Midday Asian Summer Mode", where SW transmitters in Asia (essentially at distances of up to about 10,000 km) were audible around the local Eastern Australian summer noon period on frequencies as low as 4 MHz 5000 km, in total daylight! I covered that topic, amongst others, in the "How to Listen to the World" section of the 1980 WRTH under the heading of "SW DXing from the Antipodes".

In the early 1980s, a "new" Mode appeared, which we christened the "Ranceby Mode", where African SW signals (generally in eastern and southern Africa) were audible at around our local noon, mid summer, on frequencies as low as 6 MHz, for shortpath distances up to 10,000 km. The name derives from the township of Ranceby, in Gippsland, Victoria, where some of us had travelled on a DXpedition, where the "mode" was uncovered!

RTM Shortwave station at Kajang, Malaysia. Photo: Kurier

In subsequent years, the Ranceby Mode has appeared every summer, and is observable throughout all of Eastern Australia, and it has become known as the "Midsummer African Daytime Mode".

I now know that my reception of South Africa at 1pm in January 1959 was symptomatic of the African Mode, and it is of course possible, and highly probable, that the Mode had been in existence for a great many years prior to 1959. I have not been able to locate any specific reception data for the years prior to 1959 which might confirm the ongoing nature of this Mode.

Now, in the late 1990's, the Midday African and Asian Modes are predictable appearances from late November, through until late January, and it's been conjectured that the propagation mechanisms for both modes might be similar. Over the 1995-96 summer, some of us worked on this theory very extensively, and I have put together a hypothesis which explains the propagation mechanisms, but which is subject to refutation should new data appear in the future.

### THE ASIAN MODE

In August 1992, I wrote a long paper in the ADXN, on the Asian Mode, incorporating graphical plots of reception year by year since 1970, compared with solar activity. At that time, the conclusions drawn from that study suggsted that:

(a) The Asian Mode was apparent every summer, irrespective of the solar cycle

(b) The "opening" to Asia was widest during solar minima

(c) The lower frequencies (ie. 4,5,6 MHz) opened up ONLY during solar minima years

The summers of 1973-1977 and 1984-1988 revealed some astonishing midday reception on 60 and 49 metres from Asia here in South Eastern Australia, which corresponded to solar minima, at the beginning of solar cycles 20 and 21 respectively. No reception data exists for the solar minima of 1953-1956 (at the beginning of solar cycle 18) or 1963-1966 (start of solar cycle 19). At the present time, we are virtually at the end of solar cycle 21, with the first signs of solar cycle 22 emerging. If past patterns were maintained, the Asian Mode would most probably be at its best during the period 1993-1996. A major constraint in the 1993-1996 period has been the progessively increasing level of power line radiated electro-magnetic interference, which can at times blanket all signals beyond the very strong outlets. For these kinds of propagation studies, we are looking generally at weak signals, and not for listening to entertainment or news!

A secondary consideration is the effect of ozone-depletion, due to CFC penetration, and the existence of ozone holes over the Antarctic, and other regions. This ozone depletion causes an increase in the amount of ultra-violet radiation arriving at the earth's surface. EUV (extreme ultra

violet) is the most important ionizing radiation. It is produced in the solar chromosphere in hot plage regions that overlie sunspot groups. The EUV output from ther sun is approximately constant, but it varies from month to month and from year to year as the number of sunspots varies. The EUV is absorbed in the height range 100-400 km and is almost entirely responsible for ionization in the E, F1, abnd F2 regions. Solar UV (ultra violet) radiation has longer wavelengths than EUV. It does not cause ionization, but is absorbed by ozone at a height of about 40 km.

Research into ozone depletion is ongoing, with annual increments to the body of scientific knowledge available. It's effect on long-distance radio transmission has not (at least to my knowledge) been reported quantitatively in any learned papers.

I believe that ozone depletion, caused by CFC penetration, has influenced ionospheric properties, and that this has caused some deterioration in lower frequency daytime reception, due to higher ionization levels, and consequently increased absorption.

For the Asian Mode, we are discussing daytime propagation, as a result of E layer transmission, and it is the ALF/LUF (absorption limiting frequency / lowest usable frequency) which is of significance. The ALF is set by antenna efficiencies, and absorption losses, or by the E layer cut-off frequency (eg: the EMUF). My view is that ALFs for the Asian Daytime Mode have been affected by ozone depletion, triggering HIGHER values of ALFs than would "normally" be observed, due to INCREASED ionization densities. This may be the reason why there has been very little 4, 5, and 6 MHz daytime Asian reception since 1984. Prior to then, ozone depletion was certainly not at the level it is at today!

**Specific Issues**

For 1995/96, analysis of the Asian mode was assisted by the appearance of high powered transmitters in Papua New Guinea, Indonesia, and Thailand, including:

Port Moresby 9675;
Jakarta 9680 (National Network), and 9525 (External Service);
Bangkok (Udorn) - VOA facility 9690 9510 9505 9650;

In Papua New Guinea, it appears that all daytime SW operations have now ceased on 49 metres - previously, these transmissions were available on 5965, 5985, 6020, 6040, 6080, and 6140. The absence of these transmissions hampered propaagation analysis.

On the other hand, the new higher powered transmitter at Vanuatu, using 7260, often provided useful reception right through the Australian daytime period.

In Australia, the Queensland (Brandon) transmitters of Radio Australia on 9580 and 9660 were not reliably heard. here in Melbourne; azimuths are 80 degrees and 10 degrees respectively. The Northern Territory SW Service outlets on 4835 (Alice Springs), 4910 (Tennant Creek), and 5025 (Katherine) were not audible continuously, and they were not audible simultaneously. Antenna configuration for those facilities is unusual, being designed for vertical incidence radiation, which may account for the unreliable reception in the Eastern States.

Only one Indonesian station on 49 metres was heard - Jayapura on 6070, with listed 20 kW. Two Indonesian outlets were heard on 41 metres - 7173 (Serui - ?0.5 kW), and 7231 (Fak Fak - ?0.5 kW). Several outlets of Radio Malaysia were heard on 41 metres: Kuching on 7130 7145 7160 and 7295, and Kuala Lumpur on 7295.

On 31 metres, several Domestic Service Indonesians provided splendid all-day reception:

9552 Ujung Pandang (?7.5 kW)
9705 Pontianak (?50 kW)
9743 Sorong (?10 kW)

Another "new" station has been the "Radio for the Print Disabled", Levin, New Zealand, on 7290, with listed 1 kW, audible on and off during the survey period.

**Propagation Patterns**

For short-haul paths such as New Zealand, within Australia, and Vanuatu, for distances up to about 3000 km, propagation on 5, 6, 7, and 9 MHz is generally via the 2E mode (two hops). Single hop propagation (1E) will not generally support transmission on frequencies below about 10 MHz at those distances, at that time period. The 3E mode (three hops) cuts in at about the 4000 km mark (eg: Indonesia). For longer distances, the 3E mode remains dominant up to about 8000 km (eg: Taiwan, North Korea, Thailand). Above 8000 km, the 4E mode becomes the main mechanism, up to about 10,000 km (India, Japan, Pakistan). There are no Asian stations further out than about 10,000 km. If there were, the F mode dominates.

In reality, our reception is a combination of all modes (2E, 3E, 4E, and F), which varies continuously, both in phase, level, and arrival angle. This multi-modal propagation is the cause of the sudden appearances of Asian signals, and the rapid buildup of some signals to enormous levels, only to have those signals disappear without trace a few minutes later. What we are observing is propagation over total daylight paths of distances up to 10,000 km, predominantly via E layer refraction. E layer MUFs vary continuously throughout the day, and at those times when signals increase very quickly to high levels, it would be safe to suggest that the observed frequency is just short of the actual E MUF. An E MUF of about 10 MHz is suggested for the Indonesian path between 0000-0500 UTC, which accounts for the enormous signal strengths of those stations at times.

**Signal Requirements**

The minimum level of signal intensity for satisfactory reception depends on the noise level at the receiving location and the modulation type. Atmospheric noise is generally the predominant type of noise that the signal must overcome. For satisfactory reception, a manual CW signal requires a signal-to-noise ratio of about 3:1; speech grade quality single sideband with 10 dB carrier suppression and 3 kHz bandwith requires a ratio of about 7:1, whilst a speech quality double sideband signal with 6 kHz bandwith requires a S /N ratio of at least 15:1. Optimum conditions occur at or near the MUF, where both the signal-to-noise ratio and propagation reliability are maximum.

Unlike the MUF, which is dependent entirely upon ionospheric characteristics, the LUF (ALF) can be controlled to some degree by adjustments in the effective radiated power, or by changes in the type or modulation transmitted. As a general rule, the LUF can be lowered approximately 2 MHz for each ten-fold increase in effective radiated power, and vice versa.

As ionospheric absorption increases as solar activity increases, the LUF for any particular path is expected to be somewhat higher during periods of peak solar activity, than during periods of low sunspot activity.

For the Japanese transmitters on 9 MHz, we are looking at a transition between 3E and 4E propagation, with computed ALFs around the 10 MHz point at 0200 UTC.

The interesting thing with all this is why the Midday Asian Mode is not observed during our Australian winter! Quite possibly it exists, but signals are totally masked by the enormous number of high powered transmissions audible from Europe, the Middle East, and the Americas, between 0000-

0500. The reason why the Mode was discovered was due to the absence of signals from Europe and most other continents during our Australian midday period. However, it is known that ionization levels in the E layer are much stronger in the summer, since the sun is hgher in the sky. This suggests that during the winter months, E MUFs would be corespondingly reduced as compared with the summer, for any given time period and transmission path, and for any given solar cycle. If this is so, it's reasonable to assume that Asian signals on 9 MHz, which propagate so well during the summer, where E MUFs hover around 10 Mhz, would not be audible during the winter at the same time span, due to reduced E MUF.

India and Pakistan are enigmas..several AIR and Pakistan outlets were audible, but generally only towards the end of January on 9 MHz. We're looking at distances of 10,000 km for the Indian and Pakistan situations, in broad daylight, which I believe is "just about as far as one can go" for 9 MHz propagation over a substantially daylight path! For our purposes, Asia cuts out beyond India, which is outside the boundaries of this study. It's of course possible that the Indian and Pakistan reception on 9 MHz at 0200 is a long-path mechanism, extending across the Middle East, Atlantic and Central America and arriving from the south east into Melbourne. We are probably getting a combination of long path (F layer) and short-path (E layer) propagation for transmitters at the 10,000 km mark, for both African and Asian stations.

The study was intended to focus on the "lower SW frequencies", such as 5, 6, and 7 MHz, but for reasons cited above, there wasn't too much happening there.

It's interesting to look at the longest transmission distances for particular frequency bands, which reveals the following, with typical frequencies:

4/5 MHz bands:

| | | |
|---|---|---|
| 5025 | Australia (Katherine) | 3200 km |
| 4910 | Australia (Tennant Creek) | 2800 km |
| 4835 | Australia (Alice Springs) | 2200 km |

6 MHz band:

| | | |
|---|---|---|
| 6070 | Indonesia (Jayapura) | 4334 km |

7 MHz band:

| | | |
|---|---|---|
| 7375 | Uzbekistan (Tashkent) | 11756 km (possibly F propagation) |
| 7295 | Malaysia (Kuala Lumpur) | 6343 km |
| 7170 | Singapore | 6056 km |
| 7130 | Sarawak (Kuching) | 5630 km |
| 7231 | Indonesia (Fak Fak) | 4344 km |
| 7173 | Indonesia (Cerui) | 4344 km |
| 7260 | Vanuatu (Vila) | 3191 km |

9 MHz band:

| | | |
|---|---|---|
| *9585 | Islamabad | 10696 km |
| *9550 | India (Delhi/Aligarh) | 10020 km |

(Note: * possibly combining long-path)

| | | |
|---|---|---|
| 9505 | China | 9099 km |
| 9720 | Sri Lanka | 8359 km |
| 9345 | N. Korea | 8748 km |

**Summary**

I believe that the Midday Asian Mode is a cyclic occurrence, appearing every summer, and observed during the 0000-0500 UTC period. Propagation appears to be via multi-hop, multi-modal E layer refraction, with the maximum distance over a total daylight path of some 10,000 km for a 9 MHz transmitter. Increased levels of power-line radiated inteference hampered full analysis on 5 and 6 Mhz, and it's conjectured that ozone depletion effects, leading to increased ionization levels, have caused a general rise in ALFs (LUFs) on the Asia/Australia path, causing loss of some signals. Based on data from earlier years, it is suggsted that the summers in low sunspot years offer a greater frequency "window" than in high sunspot years, but acknowledging the effects of ozone depletion and high levels of electrical power-line radiated interference.

Whilst those major constraints exist, I do not believe that there will be a return to the extraordinary receptions of 1975 and 1985, where 60 metre band signals were audible at local noon in Melbourne (0200 UTC) in January from transmitters located throughout Indonesia and the Malaysian Archipelago.

## THE AFRICAN MODE

In extension of my comments at the opening of this article, the main constraint in analysing this mode until recently had been the relatively small number of SW transmitters actually operating in the 5, 6, 7, and 9 MHz bands in the period from 0000-0500.

There are also some conceptual difficulties in determining whether some countries should be categorized as "Asia" or "Africa". For example, Seychelles sits at 9644 km from Melbourne, and we regard it as "Africa", whereas India, at 10020 km, is considered to be in the "Asian Mode" category! These anomalies need to be taken into account when reviewing the survey data.

In 1988, the DXing community was taken by surprise when Radio Beijing (now China Radio International) appeared mysteriously on 9770 with programming to Latin America in the period 0000 to 0500. This turned out to be a new relay in Bamako, Mali, which assisted study of the African Daytime mode from here in Eastern Australia. The Voice of America Monrovia (Liberia) relay had operated in the 49 and 41 metre bands in the 1970's and 1980's at 0300-0400 UTC, but these facilities are now closed down. The Morocco relay came up in recent times, as did the new Botswana facility, and reception observations of those transmitters in the survey time span are progressively incrementing the body of data associated with the African Mode.

As for the Asian Daytime Mode, the African Mode is apparent throughout the Australian summer, peaking in January, for the general window between 0000 and 0500. Signals have been observed in the 6 MHz band at local noon here in Melbourne. For comparison, local sunset here in Melbourne in early January is 1115 UTC, and local sunrise is 1815 UTC.

Transmitters in southern, eastern, and central Africa are heard, with propagation believed to be via the long-path, via F layer transmission. For a transmitter in South Africa, the long propagation path extends north westerly across the south Atlantic, West Africa, the North Atlantic, Canada, the Hawaiian Islands, and arriving at Melbourne from the north east (about 45 degrees azimuth).

For transmitters in the Indian Ocean area, such as Seychelles and Madagascar, it is possible that propagation is via a combination of long and short-path modes.

Maximum transmission distances per frequency band, with typical frequencies:

6 MHz band

6005 Ascension Island 23515 km

7 MHz band:

7125 South Africa 27713 km

18

| | | |
|---|---|---|
| 7255 | Botswana | 27412 km |
| 7135 | Gabon | 24148 km |
| 7245 | Angola | 25191 km |

9 MHz band:

| | | |
|---|---|---|
| 9860 | Madagascar | 29000 km |
| 9785 | Seychelles | 28356 km |
| 9565 | Rwanda | 25982 km |
| 9710 | Mali | 21871 km |

## CONCLUSIONS

The study tends to confirm that:

(a) There are two distinct Modes (Asia and Africa).

(b) The dominant propagation pattern for the Asian Mode is via E layer transmission, of distances up to 10,000 km, across substantially daylight paths.

(c) The dominant propagation pattern for the African Mode is via F layer transmission, long-path, of distances up to 29000 km, for combined darkness/daylight paths, with the daylight component of the order of 10000 km.

(d) Under some circumstances, signals are the result of combinational modes, for transmitters situated at distances of approximately 9000-10000 km.

(e) The conclusions are based on reception in South Eastern Australia, and would not be relevant to other Australian receiving locations.

(Bob Padula, 31 January 1996)

**APPENDIX 1**:

Transmitters heard, with short-path distances from Melbourne, and frequencies.

| | | | |
|---|---|---|---|
| Australia | Brandon (RA) | 1800km | 9660 9580 |
| New Zealand | Levin | 2569 | 7290 |
| Australia | Alice Springs | 2800 | 4835 |
| " | Tennant Creek | 2800 | 4910 |
| PNG | Port Moresby | 3157 | 9675 |
| Vanuatu | Vila | 3191 | 7260 |
| Australia | Katherine | 3200 | 5025 |
| Indonesia | Cerui | 4334 | 7173 |
| " | Fak Fak | 4344 | 7231 |
| " | Jayapura | 4334 | 6070 |
| " | Sorong | 4344 | 9743 |
| " | Ujung Pandang | 4689 | 9552 |
| " | Jakarta | 5215 | 9525 9680 |
| " | Pontianak | 5554 | 9705 |
| Sarawak | Kuching | 5630 | 7130 7145 7160 7270 |
| Singapore | Kranji | 6056 | 9600 |
| " | SBC | 6056 | 7170 |
| Philippines | Palauig (RVA) | 6332 | 9535 9670 |
| " | Poro/Tinang | 6332 | 9545 9890 (VOA) |
| Malaysia | Kuala Lumpur | 6343 | 7295 |
| Thailand | Udorn (VOA) | 7360 | 9505 9510 9650 |
| " | Udorn | 7360 | 9690 (R. Thailand) |
| " | Pathumthani | 7360 | 9655 (R. Thailand) |
| Taiwan | Taipei (BCC) | 7407 | 9280 9610 |
| Vietnam | Hanoi (VOV) | 7700 | 9730 |
| Myanmar | Yangon | 7930 | 9730 |
| Japan | Tokyo (NSB) | 8177 | 9595 9760 |
| " | Yamata (NHK) | 8177 | 9605 |
| Sri Lanka | Colombo (SLBC) | 8359 | 9720 |
| N. Korea | Pyongyang | 8748 | 9345 9650 |
| China | Beijing (CRI) | 9099 | 9560 9565 9440 |
| " | Beijing (CPBS) | 9099 | 9290 |
| " | Beijing | 9099 | 9505 (V. of Strait) |
| Madagascar | Talata (RN) | 9354 | 7285 9590 9860 |
| Seychelles | FEBA | 9644 | 9805 9820 9785 |
| India | Delhi/Aligarh | 10020 | 9705 9550 9595 9565 9910 |
| South Africa | Meyerton (SABC) | 10287 | 7185 7125 9520 9585 9655 |
| " | Meyerton | 10287 | 9675 (VOA) |
| " | Meyerton (TWR) | 10287 | 7235 |
| Botswana | Gaberone | 10588 | 7255 (R. Botswana) |
| " | Mopeng Hill | 10588 | 9885 (VOA) |
| Pakistan | Islamabad | 10696 | 9585 |
| Masirah Island | BBC | 11054 | 9585 |
| UAE | Abu Dhabi | 11677 | 9605 |
| Uzbekistan | Tashkent (BBC) | 11756 | 7375 |
| Yemen | Sanaa | 11968 | 9780 |
| Qatar | Doha | 11968 | 7210 9570 |
| Rwanda | Kigali (DW) | 12018 | 9565 |
| Saudi Arabia | Riyadh (BSKSA) | 12353 | 9620 |
| Iran | Tehran (VOIRI) | 12609 | 9575 9540 |
| Angola | Luanda | 12809 | 7245 |
| Israel | Jerusalem | 13702 | 9390 |
| Jordan | Amman | 13652 | 7180 9630 |
| Cyprus | Limmasol (BBC) | 13800 | 9585 9760 |
| Gabon | Libreville | 13852 | 7135 (RFI) |
| Egypt | Cairo | 13953 | 9755 9850 9900 |
| Turkey | Ankara (VOT) | 14436 | 9560 9445 |
| Ascension Isl | BBC | 14485 | 9600 |
| Greece | Kavala (VOA) | 14499 | 9505 9435 |
| " | Athens (ERT) | 14499 | 9425 9420 |
| Mali | Bamako (CRI) | 16129 | 9710 |
| Morocco | Rabat (Medi 1) | 17420 | 9575 |
| " | Briech (VOA) | 17420 | 9665 |

**Note:** Notional sites of "Beijing" and "Delhi" are assumed for transmitters in China and India, due to uncertainty of precise locations for the frequencies listed.

**APPENDIX 2:**

Long-path distances from Melbourne:

| | | |
|---|---|---|
| Morocco | Briech | 21075 km |
| " | Rabat | 21075 |
| Mali | Bamako | 21871 |
| Greece | Kavala | 23500 |
| " | Athens | 23500 |
| Ascension Is | BBC | 23515 |
| Turkey | Ankara | 23564 |
| Egypt | Cairo | 24047 |
| Gabon | Libreville | 24148 |
| Cyprus | Limmasol | 24200 |
| Jordan | Amman | 25350 |
| Israel | Jerusalem | 24298 |
| Angola | Luanda | 25191 |
| Iran | Tehran | 25391 |
| Saudi Arabia | Riyadh | 25647 |
| Rwanda | Kigali | 25982 |
| Qatar | Doha | 26032 |
| Yemen | Sana'a | 26032 |
| Uzbekistan | Tashkent | 26244 |
| UAE | Abu Dhabi | 26323 |
| Masirah Isl | BBC | 26946 |
| Pakistan | Islamabad | 27304 |
| Botswana | Gaberone | 27412 |
| South Africa | Meyerton | 27713 |
| India | Delhi/Aligarh | 27980 |
| Seychelles | FEBA | 28356 |
| Madagascar | Talata | 29000 |

**APPENDIX 3**

**SURVEY OBSERVATIONS**

***0000-0500 UTC, 1 November 1995 to 31 January 1996***

Asia/Oceania/Africa/Middle East;

2000-10000 kHz;

**Participants:**

Mick Ogrizek (Ballan, Victoria); Matt Francis (Monash, ACT); Bob Padula (Surrey Hills, Victoria).

| | | | | |
|---|---|---|---|---|
| 4835 | Australia | Alice Springs | 0000-0500 | EE/Abor |
| 4910 | Australia | Tennant Creek | 0000-0500 | EE/Abor |
| 5025 | Australia | Katherine | 0000-0500 | EE/Abor |
| 6005 | Ascension Is | BBC | 0300-0400 | EE |
| 6070 | Indonesia | RRI-Jayapura | 0300-0315 | IN |
| 7125 | South Africa | Meyerton(BBC) | *0430-0500* | PP |
| 7130 | Sarawak | Kuching | 0340-0415 | Bidayuh |
| 7135 | Gabon | Libreville (RFI) | *0300-0400 | FF |
| 7145 | Sarawak | Kuching | 0330-0415 | Malay |
| 7160 | Sarawak | Kuching | 0330-0415 | EE/CC |
| 7170 | Singapore | SBC | 0200-0415 | Indian |
| 7173 | Indonesia | RRI-Cerui | 0100-0130 | IN |
| 7180 | Jordan | Amman | 0000-0200 | AA |
| 7185 | South Africa | Channel Africa | *0300-0400 | FF |
| 7210 | Qatar | Doha | 0400-0500 | AA |
| 7231 | Indonesia | RRI-Fak Fak | 0222-0226 | IN |
| 7235 | South Africa | Meyerton (TWR) | 0330-0400 | EE |
| 7245 | Angola | Luanda (R.Nac) | 0100-0300 | PP |
| 7250 | Singapore | SBC | 0300-0415 | Malay |
| 7255 | Botswana | Gaberone | 0330-0415 | Vern |
| 7260 | Vanuatu | Vila | 0000-0400 | EE FF |
| 7270 | Sarawak | Kuching | 0345-0430 | Iban |
| 7285 | Madagascar | Talata (RN) | 0000-0030* | DD |
| 7290 | New Zealand | R. Reading | 0200-0500 | EE |
| 7295 | Malaysia | Kuala Lumpur | 0330-0430 | EE |
| 7375 | Uzbekistan | Tashkent (BBC) | *0030-0050 | Bengali/HI |
| 9280 | Taiwan | Taipei (BCC1) | 0000-0500 | CC |
| 9290 | China | Beijing (CPBS1) | 0330-0500 | CC |
| 9345 | North Korea | Pyongyang | *0400-0500 | KK |
| 9390 | Israel | Jerusalem HS | 0400-0500 | Hebrew HS |
| 9420 | Greece | ERT Athens | *0300-0350* | GK/EE |
| 9425 | Greece | ERT Athens | *0400-0500 | GK/TK/AA |
| 9435 | Greece | Kavala (VOA) | 0330-0430* | Farsi |
| 9440 | China | Beijing (CRI) | 0000-0100 | CC |
| 9445 | Turkey | Ankara (VOT) | 0000-0500 | TK |
| 9460 | Turkey | Ankara (VOT) | 0000-0500 | TK |
| 9495 | Philippines | FEBC Manila | 0000-0015* | VV |
| 9505 | Thailand | Udorn (VOA) | *0100-0130* | Urdu |
| " | Greece | Kavala (VOA) | *0130-0145* | Pashto |
| " | China | V. of Strait | *0255-0500 | CC |
| 9510 | Thailand | Udorn (VOA) | *0000-0100* | Tibetan |
| 9520 | South Africa | Channel Africa | *0400-0500 | FF |
| 9525 | Indonesia | V.of Indonesia | *0030-0430* | SS/EE/IN/AA |
| | | | 0430-0500 | Ramadan |
| 9535 | Philippines | R. Veritas | 0000-0100* | Karen/Kach |
| 9540 | Iran | VOIRI Tehran | *0430-0500 | TK |
| 9545 | Philippines | Poro (VOA) | 0000-0200* | CC |
| 9550 | India | Delhi | *0130-0225* | Nepali |
| 9552 | Indonesia | RRI Uj. Pandang | 0000-0500 | IN |
| 9560 | Turkey | Ankara (VOT) | *0400-0500* | EE |
| " | China | Beijing (CRI) | *0300-0400* | SS |
| 9565 | Rwanda | Kigali (DW) | *0300-0500 | Swahili/EE |
| " | India | Delhi | *0130-0200* | Tibetan |
| " | China | Beijing (CRI) | 0100-0200 | SS |
| 9570 | Qatar | Doha | 0400-0500 | AA |
| 9575 | Morocco | Nador (Medi-1) | 0000-0100 | FF |
| " | Iran | VOIRI-Tehran | *0030-0130* | Bengali |
| 9580 | Australia | Brandon (RA) | 0000-0500 | EE/FF |
| 9585 | Pakistan | Islamabad | *0100-0200* | Bengali |
| " | Masirah Is. | BBC | *0230-0330* | Persian |
| " | South Africa | Channel Africa | *0300-0500* | EE |
| " | Cyprus | Limmasol (BBC) | *0330-0430* | RR |
| 9590 | Madagascar | Talata (RN) | 0000-0025* | DD |
| 9595 | Japan | Tokyo (NSB) | 0030-0400 | JJ |
| " | India | Delhi | 0130-0200 | Urdu |
| 9600 | Singapore | Kranji (BBC) | *0000-0030* | Burmese (Mon-Fri) |
| | | | *0030-0045* | BBC EE |
| | | | *0100-0215* | Burmese (Sat-Sun) |
| " | Ascension Is. | BBC | *0300-0500 | EE WS |
| 9605 | Abu Dhabi | Abu Dhabi | *0200-0500 | AA |
| " | Japan | Yamata (NHK) | *0300-0400* | EE |
| 9610 | Taiwan | Taipei (BCC-1) | 0000-0500 | CC |
| " | Seychelles | BBC | *0330-0430* | EE WS |
| 9620 | Saudi Arabia | Riyadh | 0430-0500 | AA (Koran) |
| 9630 | Jordan | Amman | 0450-0500 | AA |
| 9650 | Thailand | Udorn (VOA) | *0200-0215* | Dari |
| " | North Korea | Pyongyang | *0400-0500 | JJ |
| " | Greece | Kavala (VOA) | *0030-0100* | HI |
| 9655 | Thailand | Bangkok (HSK9) | 0300-0430 | EE/Thai |
| " | Turkey | Ankara (VOT) | *0400-0500* | EE |
| " | South Africa | Channel Africa | *0400-0500 | PP |
| 9660 | Australia | Brandon (RA) | 0000-0500 | EE/FF |
| 9665 | North Korea | Pyongyang (KCBS) | 0200-0400 | KK |
| " | Morocco | Briech (VOA) | *0400-0500 | AA |
| 9670 | Philippines | R. Veritas | *0000-0056* | Sin/Kachen |
| " | Iran | VOIRI-Tehran | *0400-0430 | AA |
| " | Greece | Kavala (VOA) | *0200-0215* | Dari |
| 9675 | PNG | NBC-Pt.Moresby | 0000-0500 | EE |
| " | South Africa | Meyerton (VOA) | *0500-0630* | Hausa/FF |
| 9680 | Indonesia | RRI-Jakarta | 0000-0400* | IN (HS) |
| 9685 | Iran | VOIRI-Tehran | 0230-0330* | AA |
| 9690 | Thailand | Udorn (HSK9) | 0000-0030* | EE |
| 9705 | India | Delhi | 0000-0045* | EE GOS |
| " | Indonesia | RRI-Pontianak | *0213v-0500 | IN |
| 9710 | Mali | Bamako (CRI) | 0000-0500 | CC/EE |
| 9720 | Sri Lanka | Colombo (SLBC) | *0030-0400 | EE |
| 9730 | Vietnam | Hanoi (VOV) | 0000-0100* | Camb/Lao |
| " | Myanmar | Yangon | 0309-0500 | Barmar |
| 9735 | Oman | Muscat (R.Oman) | 0400-0500 | AA |
| 9740 | Greece | Kavala (VOA) | *0100-0300* | EE |
| 9742 | Indonesia | RRI-Sorong | 0000-0500 | IN |
| 9750 | Morocco | Briech (VOA) | *0400-0500* | Romanian |
| 9755 | China | Beijing (CPBS2) | 0000-0200 | CC |
| " | Egypt | R. Cairo | 0400-0500 | Koran svce |
| 9760 | Japan | Tokyo (NSB) | 0000-0500 | JJ |
| " | Mali | Bamako (CRI) | 0200-0300 | CC |
| " | Cyprus | Limmasol (BBC) | 0420-0445* | AA |
| 9765 | Rwanda | Kigali (DW) | 0000-0200 | GG |
| 9770 | Abu Dhabi | Abu Dhabi | 0230-0500 | AA |
| 9780 | Yemen | San'a | 0400-0500 | AA |
| | | | 0058-0150 | Ramadan |
| 9785 | Seychelles | FEBA | *0215-0245* | Sindhi |
| 9805 | Seychelles | FEBA | *0215-0400 | Sindhi |
| 9820 | Seychelles | FEBA | *0315-0400 | Swahili |
| 9850 | Egypt | R. Cairo | *0247-0500 | AA |
| 9860 | Madagascar | Talata (RN) | *0130-0425* | EE/DD |
| 9885 | Botswana | VOA | 0300-0430 | EE |
| 9890 | Philippines | Poro (VOA) | 0000-0100* | EE |
| 9900 | Egypt | R. Cairo | 0223-0500 | AA |
| 9910 | India | Delhi/Aligarh | *0215-0345* | Pashto/Dari |
| 9945 | China | Beijing (CRI) | *0000-0100* | SS |
| | | | *0200-0300* | SS |

**PLEASE NOTE: Due to the introduction of the summer schedule on Sunday 31st it has been necessary to omit the programmes for this date. They will be included in next month's issue.**

## HOW TO USE THE SCHEDULE

- Programme titles listed below are followed by a category code in italics (a key is given in the left-hand margin).
- The code will help you to find details on the Radio Programme pages, where category headings run alphabetically.
- Programmes listed below which are not on the hour but printed in colour are variations from the core schedule.
- If you wish to tune to these programmes, check the frequency pages for your area.

## SATURDAY 2, 9, 16, 23, 30

0000 NEWSDESK
0030 **Seven Days** *CA*
0045 **Britain Today** *N*
0100 NEWSDESK
0130 **Outlook** *HI*
0155 **Words Of Faith** *R*
0200 NEWSDAY
0230 **Science In Action** *S*
0300 WORLD NEWS
0305 **World Business Report** *BF*
0315 **Sports Roundup**
0330 **Meridian** *A*
0400 NEWSDESK
0430 **The World Today** *CA*
0445 **Off The Shelf** *RD*
0500 NEWSDAY
0530 **Outlook** *HI*
0555 **Press Review** *M*
0600 NEWSDAY
0630 **Multitrack Alternative** *PM*
0700 WORLD NEWS
0715 2 **Seeing Stars** *S*; 9, 16, 23, 30 **Short Story** *RD*
0730 **Andy Kershaw's World Of Music** *PM*
0800 WORLD NEWS
0805 **Words Of Faith** *R*
0810 **Spotlight** *A*
0815 **Music Review** *CM*
0900 WORLD NEWS
0905 **World Business Report** *BF*
0915 **The World Today** *CA*
0930 **Seven Days** *CA*
0945 **Sports Roundup**
1000 NEWSDESK
1030 **From The Weeklies** *M*
1045 **Letter From America** *CA*
1100 NEWSDESK
1130 **People And Politics** *CA*
1200 WORLD NEWS
1205 **World Business Review** *BF*
1215 **A Jolly Good Show** *PM*
1300 NEWSHOUR
1400 WORLD NEWS
1405 **Sportsworld**
1500 WORLD NEWS
1505 **Sportsworld**
1600 WORLD NEWS
1615 **Sportsworld**
1700 WORLD NEWS
1705 **World Business Review** *BF*
1715 2, 9, 16, 23 **World Ranking** *PM*; 30 **Jazz For The Asking** *PM*
1745 **Sports Roundup**
1800 NEWSDESK
1830 **Multitrack Alternative** *PM*
1900 WORLD NEWS
1905 **Write On** *GF*
1915 2 **International Question Time** *CA*; 9 **Sikh Youth** *GF*; 16 **Islam: A Faith To Question?** *GF*; 23 **No Hard Feelings** *S*; 30 **Fine Tuning** *CM*
1945 30 **Mastersingers** *CM*
2000 NEWSHOUR
2100 WORLD NEWS
2105 **World Business Review** *BF*
2115 **From The Weeklies** *M*
2130 **Global Concerns** *DE*
2145 **Letter From America** *CA*
2200 NEWSDESK
2230 **Play Of The Week:** 2 **Ananda Sananda**; 9, 16 **Crimes Of The Heart**; 23 **A Visitation**; 30 **2004** *D*
2300 **Play Of The Week** cont
2330 2, 9, 16, 23 **The Ed Stewart Show** *PM*; 30 **Anything Goes** *PM*

## SUNDAY 3, 10, 17, 24

0000 NEWSDESK
0030 **Letter From America** *CA*
0045 **Britain Today** *N*
0100 NEWSDESK
0130 3, 10 **Generation X** *PM*; 17 **Paris To New York By Land** *GF*; 24 Feature
0145 **On The Move** *DE*
0200 NEWSDAY
0230 **People And Politics** *CA*
0300 WORLD NEWS
0305 **World Business Review** *BF*
0315 **Sports Roundup**
0330 3, 10, 17 **The Story Of Western Music** *CM*; 24 **Dear Diary** *HI*
0400 NEWSDESK
0430 **From Our Own Correspondent** *CA*
0450 **A Day In The Life Of An Insect** *E*
0500 NEWSDAY
0530 **Science In Action** *S*
0600 NEWSDAY
0630 **Jazz For The Asking** *PM*
0700 WORLD NEWS
0715 **Global Concerns** *DE*
0730 **In Praise Of God** *R*
0800 WORLD NEWS
0805 **Words Of Faith** *R*
0810 **From Our Own Correspondent** *CA*
0830 **The Vintage Chart Show** *PM*
0900 WORLD NEWS
0905 **World Business Review** *BF*
0915 3, 10, 17 **The Idea Of The City** *HI*; 24 **The Implausible Spy** *GF*
0945 **Sports Roundup**
1000 NEWSDESK
1030 **In Praise Of God** *R*
1100 NEWSDESK
1130 3 **Walston Goes Walkabout** *HI*; 10, 17, 24 **Three Days In Jerusalem** *R*
1200 WORLD NEWS
1205 **World Business Brief** *BF*
1215 **Anything Goes** *PM*
1245 **Sports Roundup**
1300 NEWSHOUR
1400 WORLD NEWS
1405 **A Day In The Life Of An Insect** *E*
1415 3, 10 **International Recital** *CM*; 17, 24 **Music Review** *CM*
1500 WORLD NEWS
1505 **From Our Own Correspondent** *CA*
1525 **Book Choice** *A*
1530 **The Airport** *LE*
1600 WORLD NEWS
1615 **Meridian** *A*
1645 **Britain Today** *N*
1700 WORLD NEWS
1705 **World Business Brief** *BF*
1715 **On Screen** *M*
1730 **On The Move** *DE*
1745 **Sports Roundup**
1800 NEWSDESK
1830 **John Peel** *PM*
1900 WORLD NEWS
1905 **A Day In The Life Of An Insect** *E*
1915 **A Jolly Good Show** *PM*
2000 NEWSHOUR
2100 WORLD NEWS
2105 **World Business Brief** *BF*
2115 3, 10 **International Recital** *CM*; 17, 24 **Concert Hall** *CM*
2200 NEWSDESK
2230 **On Screen** *M*
2245 **Sports Roundup**
2300 WORLD NEWS
2310 **Writers In A Nutshell** *A*
2320 **Waveguide** *S*
2330 **In Praise Of God** *R*

## MONDAY 4, 11, 18, 25

0000 NEWSDESK
0030 **Good Books** *A*
0045 **Britain Today** *N*
0100 NEWSDESK
0130 4 **Seeing Stars** *S*; 11, 18, 25 **Short Story** *RD*
0145 **Write On** *GF*
0155 4, 18, 25 **Words Of Faith** *R*; 11 **The Queen's Message To The Commonwealth** *HI*
0200 NEWSDAY
0230 **Anything Goes** *PM*
0300 WORLD NEWS
0305 **World Business Brief** *BF*
0315 **Sports Roundup**
0330 **Meridian** *A*
0400 NEWSDESK
0430 **My Music** *LE*
0500 NEWSDAY
0530 **The Learning World** *E*
0545 **Health Matters** *S*
0600 NEWSDAY
0630 4, 11, 18 **The Idea Of The City** *HI*; 25 **The Implausible Spy** *GF*
0700 WORLD NEWS
0715 **Omnibus** *GF*
0745 **Waveguide** *S*
0755 **Book Choice** *A*
0800 WORLD NEWS
0805 4, 18, 25 **Words Of Faith** *R*; 11 **The Queen's Message To The Commonwealth** *HI*
0810 **Take Five** *HI*
0815 4 **International Question Time** *CA*; 11 **Sikh Youth** *GF*; 18 **Islam: A Faith To Question?** *GF*; 25 **No Hard Feelings** *S*
0900 WORLD NEWS
0905 **World Business Report** *BF*
0915 **Making It Up** *CM*
0930 **Off The Shelf** *RD*
0945 **Sports Roundup**
1000 NEWSDESK
1030 **Composer Of The Month** *CM*
1100 NEWSDESK/World News
1105 Caribbean Report *CA*;Sport; Magazine
1130 **The Airport** *LE*
1200 WORLD NEWS
1205 Business; Caribbean Report *CA*
1205 **World Business Report** *BF*
1215 4, 11, 18 **The Idea Of The City** *HI*; 25 **The Implausible Spy** *GF*
1245 **Sports Roundup**
1300 NEWSHOUR
1400 WORLD NEWS
1405 **Outlook** *HI*
1430 **Omnibus** *GF*
1500 WORLD NEWS

1505 **From India To English** *E*
1515 4 **International Question Time** *CA*; 11 **Commonwealth Day Observance** *R*; 18 **Islam: A Faith To Question?** *GF*; 25 **No Hard Feelings** *S*
1600 WORLD NEWS
1615 4 **Walston Goes Walkabout** *HI*; 11, 18, 25 **Three Days In Jerusalem** *R*
1645 **Britain Today** *N*
1700 WORLD NEWS
1705 **World Business Report** *BF*
1715 **Composer Of The Month** *CM*
1745 **Sports Roundup**
1800 NEWSDESK
1830 **Jazz For The Asking** *PM*
1900 WORLD NEWS
1905 **Outlook** *HI*
1930 **Meridian** *A*
2000 NEWSHOUR
2100 WORLD NEWS
2105 **World Business Report** *BF*
2115 **The World Today** *CA*
2115 Caribbean Report *CA*
2130 **Health Matters** *S*
2145 **Development '96** *DE*
2200 NEWSDESK
2230 **Off The Shelf** *RD*
2245 **Sports Roundup**
2300 WORLD NEWS
2310 **Take Five** *HI*
2315 **On The Move** *DE*
2330 **Multitrack Hit-List** *PM*

## TUESDAY 5, 12, 19, 26

0000 NEWSDESK
0030 **Folk Routes** *PM*
0045 **Britain Today** *N*
0100 NEWSDESK
0130 **Outlook** *HI*
0155 **Words Of Faith** *R*
0200 NEWSDAY
0230 **Omnibus** *GF*
0300 WORLD NEWS
0305 **World Business Report** *BF*
0315 **Sports Roundup**
0330 **Discovery** *S*
0400 NEWSDESK
0430 **The World Today** *CA*
0445 **Off The Shelf** *RD*
0500 NEWSDAY
0530 **Outlook** *HI*
0555 **Press Review** *M*
0600 NEWSDAY
0630 **Multitrack Hit-List** *PM*
0700 WORLD NEWS
0715 **World Ranking** *PM*
0745 **Country Style** *PM*
0800 WORLD NEWS
0805 **Words Of Faith** *R*
0810 **Voicebox** *E*

Categories – **A**: Arts; **BC**: Background Current Affairs; **BF**: Business & Finance; **CA**: Current Affairs; **CM**: Classical Music; **D**: Drama; **DE**: Development & Environment; **E**: Education; **GF**: General Features; **HI**: Human Interest; **LE**: Light Entertainment; **M**: Media; **N**: News; **P**: Poetry; **PM**: Pop Music; **RD**: Readings; **R**: Religion; **S**: Science & Technology; **SP**: Sport; **Y**: Youth

) 14 15 16 17 18 19 20 21 22 23 24

0815 **The Greenfield Collection** *CM*
0900 WORLD NEWS
0905 **World Business Report** *BF*
0915 **The World Today** *CA*
0930 **Off The Shelf** *RD*
0945 **Sports Roundup**
1000 NEWSDESK
1030 **My Music** *LE*
1100 NEWSDESK/World News
1105 Caribbean Report *CA*;Sport; Magazine
1130 **30' Drama:** 5, 12, 19 **House Of Cards**; 26 **Head And Shoulders** *D*
1200 WORLD NEWS
1205 Business; Caribbean Report *CA*
1205 **World Business Report** *BF*
1215 **John Peel** *PM*
1245 **Sports Roundup**
1300 NEWSHOUR
1400 WORLD NEWS
1405 **Outlook** *HI*
1430 **Health Matters** *S*
1445 5, 12 **Generation X** *PM*; 19 **Paris To New York By Land** *PM*; 26 Feature
1500 WORLD NEWS
1505 **Food Plants** *DE*
1515 **The Greenfield Collection** *CM*
1600 WORLD NEWS
1615 **Folk Routes** *PM*
1630 **Rat Pack** *M*
1645 **Britain Today** *N*
1700 WORLD NEWS
1705 **World Business Report** *BF*
1715 **Discovery** *S*
1745 **Sports Roundup**
1800 NEWSDESK
1830 **Multitrack Hit-List** *PM*
1900 WORLD NEWS
1905 **Outlook** *HI*
1930 5, 12, 19 **The Story Of Western Music** *CM*; 26 **Dear Diary** *HI*
2000 NEWSHOUR
2100 WORLD NEWS
2105 **World Business Report** *BF*
2115 **The World Today** *CA*
2115 Caribbean Report *CA*
2130 **Discovery** *S*
2130 Calling The Falklands *CA*
2200 NEWSDESK
2230 **Off The Shelf** *RD*
2245 **Sports Roundup**
2300 WORLD NEWS
2310 **Voicebox** *E*
2315 **Rat Pack** *M*
2330 **Megamix** *Y*

## WEDNESDAY 6, 13, 20, 27

0000 NEWSDESK
0030 **Making It Up** *CM*
0045 **Britain Today** *N*
0100 NEWSDESK
0130 **Outlook** *HI*
0155 **Words Of Faith** *R*
0200 NEWSDAY
0230 **Composer Of The Month** *CM*
0300 WORLD NEWS
0305 **World Business Report** *BF*
0315 **Sports Roundup**
0330 6 **Walston Goes Walkabout** *HI*; 13, 20, 27 **Three Days In Jerusalem** *R*
0400 NEWSDESK
0430 **The World Today** *CA*
0445 **Off The Shelf** *RD*
0500 NEWSDAY
0530 **Outlook** *HI*
0555 **Press Review** *M*
0600 NEWSDAY
0630 **Megamix** *Y*
0700 WORLD NEWS
0715 **John Peel** *PM*
0745 **Development '96** *DE*
0800 WORLD NEWS
0805 **Words Of Faith** *R*
0810 **Science View** *S*
0815 **Health Matters** *S*
0830 **Anything Goes** *PM*
0900 WORLD NEWS
0905 **World Business Report** *BF*
0915 **The World Today** *CA*
0930 **Off The Shelf** *RD*
0945 **Sports Roundup**
1000 NEWSDESK
1030 **World Ranking** *PM*
1100 NEWSDESK/World News
1105 Caribbean Report *CA*;Sport; Magazine
1130 **Jazz Now And Then** *PM*
1145 **Champions** *GF*
1200 WORLD NEWS
1205 Business; Caribbean Report *CA*
1205 **World Business Report** *BF*
1215 **The Vintage Chart Show** *PM*
1245 **Sports Roundup**
1300 NEWSHOUR
1400 WORLD NEWS
1405 **Outlook** *HI*
1430 **Country Style** *PM*
1445 **Good Books** *A*
1500 WORLD NEWS
1505 **Writers In A Nutshell** *A*
1515 **Sell, Sell, Sell** *GF*
1530 **The Ed Stewart Show** *PM*
1600 WORLD NEWS
1615 **Meridian** *A*
1645 **Britain Today** *N*
1700 WORLD NEWS
1705 **World Business Report** *BF*
1715 **My Music** *LE*
1745 **Sports Roundup**
1800 NEWSDESK
1830 **Anything Goes** *PM*
1900 WORLD NEWS
1905 **Outlook** *HI*
1930 **Meridian** *A*
2000 NEWSHOUR
2100 WORLD NEWS
2105 **World Business Report** *BF*
2115 **The World Today** *CA*
2115 Caribbean Report *CA*
2130 **Assignment** *CA*
2200 NEWSDESK
2230 **Off The Shelf** *RD*
2245 **Sports Roundup**
2300 WORLD NEWS
2310 **Science View** *S*
2315 **Country Style** *PM*
2330 **Multitrack X-Press** *PM*

## THURSDAY 7, 14, 21, 28

0000 NEWSDESK
0030 **From Our Own Correspondent** *CA*
0045 **Britain Today** *N*
0100 NEWSDESK
0130 **Outlook** *HI*
0155 **Words Of Faith** *R*
0200 NEWSDAY
0230 **Assignment** *CA*
0300 WORLD NEWS
0305 **World Business Report** *BF*
0315 **Sports Roundup**
0330 **Meridian** *A*
0400 NEWSDESK
0430 **The World Today** *CA*
0445 **Off The Shelf** *RD*
0500 NEWSDAY
0530 **Outlook** *HI*
0555 **Press Review** *M*
0600 NEWSDAY
0630 **Multitrack X-Press** *PM*
0700 WORLD NEWS
0715 **Jazz Now And Then** *PM*
0730 **Sports International**
0800 WORLD NEWS
0805 **Words Of Faith** *R*
0810 **Invitation To The Dance** *CM*
0815 **Good Books** *A*
0830 **Network UK** *HI*
0900 WORLD NEWS
0905 **World Business Report** *BF*
0915 **The World Today** *CA*
0930 **Off The Shelf** *RD*
0945 **Sports Roundup**
1000 NEWSDESK
1030 **Assignment** *CA*
1100 NEWSDESK/World News
1105 Caribbean Report *CA*;Sport; Magazine
1130 **From Our Own Correspondent** *CA*
1145 **The Learning World** *E*
1200 WORLD NEWS
1205 Business; Caribbean Report *CA*
1205 **World Business Report** *BF*
1215 7, 14, 21 **The Story Of Western Music** *CM*; 28 **Dear Diary** *HI*
1245 **Sports Roundup**
1300 NEWSHOUR
1400 WORLD NEWS
1405 **Outlook** *HI*
1430 **Network UK** *HI*
1500 WORLD NEWS
1505 **UK Album Chart** *PM*
1515 **The Learning World** *E*
1530 **Megamix** *Y*
1600 WORLD NEWS
1615 **Sports International**
1645 **Britain Today** *N*
1700 WORLD NEWS
1705 **World Business Report** *BF*
1715 **Focus On Faith** *R*
1745 **Sports Roundup**
1800 NEWSDESK
1830 **Multitrack X-Press** *PM*
1900 WORLD NEWS
1905 **Outlook** *HI*
1930 **Network UK** *HI*
2000 NEWSHOUR
2100 WORLD NEWS
2105 **World Business Report** *BF*
2115 **The World Today** *CA*
2115 Caribbean Report *CA*
2130 **Sports International**
2200 NEWSDESK
2230 **Off The Shelf** *RD*
2245 **Sports Roundup**
2300 WORLD NEWS
2310 **Invitation To The Dance** *CM*
2315 **Sell, Sell, Sell** *GF*
2330 7 **The Legacy Of Colonialism** *BC*; 14, 21, 28 **Mine Fields** *BC*

## FRIDAY 1, 8, 15, 22, 29

0000 NEWSDESK
0030 **The Farming World** *DE*
0045 **Britain Today** *N*
0100 NEWSDESK
0130 **Outlook** *HI*
0155 **Words Of Faith** *R*
0200 NEWSDAY
0230 **30' Drama:** 1, 8, 15, 22 **House Of Cards**; 29 **Head And Shoulders** *D*
0300 WORLD NEWS
0305 **World Business Report** *BF*
0315 **Sports Roundup**
0330 1, 8 **The Legacy Of Colonialism** *BC*; 15, 22, 29 **Mine Fields** *BC*
0400 NEWSDESK
0430 **The World Today** *N*
0445 **Off The Shelf** *RD*
0500 NEWSDAY
0530 **Outlook** *HI*
0555 **Press Review** *M*
0600 NEWSDAY
0630 1, 8 **The Legacy Of Colonialism** *BC*; 15, 22, 29 **Mine Fields** *BC*
0700 WORLD NEWS
0715 **Sell, Sell, Sell** *GF*
0730 **Science In Action** *S*
0800 WORLD NEWS
0805 **Words Of Faith** *R*
0810 **New Ideas** *S*
0830 **Focus On Faith** *R*
0900 WORLD NEWS
0905 **World Business Report** *BF*
0915 **The World Today** *CA*
0930 **Off The Shelf** *RD*
0945 **Sports Roundup**
1000 NEWSDESK
1030 **The Ed Stewart Show** *PM*
1100 NEWSDESK/World News
1105 Caribbean Report *CA*; Sport; Magazine
1130 **Focus On Faith** *R*
1200 WORLD NEWS
1205 Business; Caribbean Report *CA*
1205 **World Business Report** *BF*
1215 **New Ideas** *S*
1235 **Waveguide** *S*
1245 **Sports Roundup**
1300 NEWSHOUR
1400 WORLD NEWS
1405 **Outlook** *HI*
1430 **Champions** *GF*
1445 **The Farming World** *DE*
1500 WORLD NEWS
1505 **Write On** *GF*
1515 1, 8 **Music Review** *CM*; 15, 22, 29 **Concert Hall** *CM*
1600 WORLD NEWS
1615 **Meridian** *A*
1645 **Britain Today** *N*
1700 WORLD NEWS
1705 **World Business Report** *BF*
1715 **The Vintage Chart Show** *PM*
1745 **Sports Roundup**
1800 NEWSDESK
1830 **Andy Kershaw's World Of Music** *PM*
1900 WORLD NEWS
1905 **Outlook** *HI*
1930 **Meridian** *A*
2000 NEWSHOUR
2100 WORLD NEWS
2105 **World Business Report** *BF*
2115 **The World Today** *CA*
2115 Caribbean Report *CA*
2130 **People And Politics** *CA*
2130 Calling The Falklands *CA*
2200 NEWSDESK
2230 **Off The Shelf** *RD*
2245 **Sports Roundup**
2300 WORLD NEWS
2310 **Spotlight** *A*
2315 **Champions** *GF*
2330 **Multitrack Alternative** *PM*

(via Gigi Lytle)

## RADIO DENMARK

January 1, 1996 - March 30, 1996
(7th edition 25/12)

Transmitterpower: 500 kW from Kvitsoy (Kv) & Sveio (Sv), and 350 kW from Fredrikstad (Fr). Klb=Kalundborg. *=change since September 24.

| UTC | Area | kHz | Beam | Tx |
|---|---|---|---|---|
| 09.30-09.55 | Southeast Asia, Australia | 15175 | 65 | Kv |
| | Western Middle East | 15230 | 120 | Kv |
| 10.30-10.55 | Greenland | 7295 | 315 | Fr |
| | Western Europe, Canary Islands | 11830* | 220* | Sv |
| 11.30-11.55 | Europe | 7295 | 180 | Fr |
| | Northern South America | 15270* | 250* | Sv |
| 12.30-12.55 | Europe | 9590 | 180 | Fr |
| | Far East, Australia | 9795* | 50* | Kv |
| | Southeast Asia, Western Australia | 15605 | 80 | Kv |
| | Eastern North America | 11840 | 280 | Sv |
| 13.30-13.55 | Europe | 9590 | 180 | Fr |
| | Southeast Asia, Western Australia | 15605 | 80 | Kv |
| | Far East, Australia | 9795* | 50* | Kv |
| | Eastern and Central North America | 11840 | 300 | Sv |
| 14.30-14.55 | Eastern and Central North America | 11840 | 300 | Sv |
| | South Asia (India) | 11720* | 95 | Kv |
| 15.30-15.55 | Western North America | 9485* | 315 | Sv |
| | Western Middle East | 9520 | 120 | Kv |
| | Eastern Middle East | 11730 | 110 | Kv |
| 16.30-16.55 | Eastern Europe | 9590 | 145 | Kv |
| | Western North America | 11840 | 315 | Sv |
| | Eastern Africa | 11840 | 145 | Kv |
| 17.30-17.55 | Eastern Europe | 7485 | 145 | Fr |
| | Western Europe | 7525* | 195 | Sv |
| | Eastern Africa | 9590 | 145 | Kv |
| 18.30-18.55 | Western Europe | 5960 | 195 | Sv |
| | Western Africa | 7485 | 195 | Fr |
| | Central and Southern Africa | 9590 | 165 | Kv |
| 19.30-19.55 | Europe | 5960 | 180 | Sv |
| | Northern Europe, Monday-Friday | 243/1062 | ND | Klb |
| | New Zealand | 5930* | 35 | Kv |
| | Western Africa | 7485 | 195 | Fr |
| | Central and Southern Africa | 9590 | 165 | Kv |
| 20.30-20.55 | Eastern & Central North America* | 9480* | 300* | Kv |
| | Europe | 7520 | 180 | Sv |
| 21.30-21.55 | Southeast Asia, Australia | 7315 | 65 | Kv |
| | Far East | 9480* | 35 | Kv |
| | Greenland | 5960 | 315 | Fr |
| 22.30-22.55 | Far East | 7115* | 35 | Kv |
| | Southeast Asia, Australia | 5960 | 65 | Kv |
| | Eastern North America | 6200* | 280 | Sv |
| 23.30-23.55 | Southeast Asia, Western Australia | 7275 | 80 | Kv |
| | South America | 5905 | 235 | Sv |
| | Eastern North America | 7465* | 290 | Fr |
| 00.30-00.55 | Southeast Asia, Western Australia | 7275 | 80 | Kv |
| | South America | 5905 | 235 | Sv |
| | Central America, Caribbean | 7465* | 290 | Fr |
| 01.30-01.55 | Central America, Caribbean | 7465* | 290 | Fr |
| | Eastern and Central North America | 6120 | 300 | Sv |
| 02.30-02.55 | Eastern and Central North America | 6120 | 300 | Sv |
| | Northern South America | 7465* | 265 | Fr |
| 03.30-03.55 | Western Middle East | 7165 | 120 | Kv |
| | Eastern Middle East | 5965 | 110 | Kv |
| | Western North America | 7465* | 315 | Sv |
| 04.30-04.55 | Western North America | 6195 | 315 | Sv |
| | Eastern Europe | 5965 | 145 | Fr |
| | Western Middle East | 6040 | 120 | Kv |
| | Eastern Middle East | 7305* | 110 | Kv |
| 05.30-05.55 | Eastern Europe | 5965 | 165 | Fr |
| | Eastern Africa | 7180* | 145 | Kv |
| 06.30-06.55 | Europe | 5965 | 180 | Kv |
| | Western Europe | 7180 | 195 | Fr |
| | Western Africa | 9590 | 195 | Sv |
| | Eastern Africa | 11735* | 145 | Kv |
| 07.30-07.55 | Western Europe, New Zealand | 7180 | 195 | Kv |
| | Europe | 5965 | 180 | Fr |
| | Western Africa | 9590 | 195 | Sv |
| 08.30-08.55 | Southeast Asia, Australia | 13800 | 65 | Kv |
| | New Zealand | 9590 | 35 | Kv |

ADDRESS: Radio Danmark, Rosenorns Alle 22, DK-1999 Frederiksberg C, Denmark. RD office: +45 35 20 57 85 - Telefax: +45 35 20 57 81 - Telephone Recorder: +45 35 20 57 91. - e-mail via Internet: rdk.ek@login.dknet.dk (or: rdk@dr.dk) WWW: http://www.mi.aau.dk/rdk/ (from January 5 also: http://www.dr.dk) - Schedule in Danish (by telephone): Europe/Africa: +45 35 20 57 96, Eastern Globe: +45 35 20 57 97, Western Globe: +45 35 20 57 98.
We share the Norwegian facilities with Radio Norway: Norway broadcasts xx.00-xx.30, followed by Denmark at xx.30-xx.55, 24 hrs. a day. The daily live transmission is aired at 09.30 UT, and Monday-Friday also at 18.30. Transmissions in-between are repeats. - The letterbox-program, "Tune In", is on the last Saturday in the month, from 09.40 utc. - A 15-minute ENGLISH program is broadcast on the first Sunday of the month starting January 7, 1996. -
Radio Denmark replies correct and complete reports with a QSL-card if 1 IRC or 1 US dollar is enclosed.

**DW WERTACHAL** - the Deutsche Welle SW Station at Wertachal located on the lower slopes of the Bavarian Alps had to be designed to withstand extreme weather conditions, from heavy snowfall and gale force winds to solar haza The site was chosen for its topography, good conductiv and isolation from urban development.

Designed by Deutsche Bundespost Telekom in 1962 it was planned to have four transmitters available for the Olympic Games in 1972. There are now fifteen 500 kW senders, including 3 on standby. The final plan is for twenty. There will be 76 antennas operated through 912 RF switches and coaxial feeders.

Although of early design, ecological considerations make the station acceptable on today's terms. The absence of parallel wire feeders means that there is no threat to insects, small mammals and birdlife. The reliability of coaxial feeds is a bonus in poor weather conditions. The antenna system has three bent radial legs at 120 degrees. 25 steel lattice towers support stacked dipoles. Pairs of towers carry two back-to-back curtain arrays sandwiching a wire screen reflector. This means that the direction of fire for each pair can be reversed. Also, slewing by +/- 30 degrees in 5 steps is possible, controlled by a process computer. The entire system is menu-driven so that at a given time a transmitter is selected and auto-tuned to required frequency, with antenna and slew direction chosen. All operations are logged with transmitter operating parameters. The Telefunken transmitters are of two types - nine S2500 and six S4005, a later design. The early type take more space, so as they are dismantled and replaced there will eventually be enough room for 20.

In this, the world's largest transmitter station, the standards of reliability and performance have justified the high expenditure on an RF-tight, radiation proof installation. Antennas and connections were provided by ABB Mannheim. Although this SW station was conceived and planned thirty years ago it is still one of the most advanced. (article adapted from RW by DAVID PORTER & dls) [WDXC CONTACT]

(VIA RADIO NEWS BULLETIN) NOTE SEVERAL NEW 30-MIN ENGLISH BCS THRUOUT 2300-2400 STILL ON 11980 IN MARCH (GH) THIS IS KSDA, GUAM !

# ADVENTIST WORLD RADIO-ASIA-1996 SUMMER SCHEDULE

1996 Summer Schedule, March 31, 1996 to October 27, 1996

| UTC | TIME | Transmitter #1 | | | | Transmitter #2 | | | | Transmitter #3 | | | | Transmitter #4 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| BEGIN | END | Language | Freq | Slew | Ant | Language | Freq | Slew | Ant | Language | Freq | Slew | Ant | Language | Freq | Slew | Ant |
| 0000 | 0030 | | | | | Burmese | 17645 | 285 | 2 | | | | | Mandarin | 15225 | 315 | 4 |
| 0030 | 0100 | | | | | Burmese | 17645 | 285 | 2 | | | | | Mandarin | 15225 | 315 | 4 |
| 0100 | 0130 | | | | | Bangla | 17645 | 285 | 2 | | | | | Mandarin | 15225 | 315 | 4 |
| 0130 | 0200 | | | | | Bangla | 17645 | 285 | 2 | | | | | Mandarin | 15225 | 315 | 4 |
| 0200 | 0230 | | | | | Mandarin* | 13720 | 315 | 2 | | | | | Mandarin* | 15225 | 315 | 4 |
| 0230 | 0300 | | | | | Mandarin* | 13720 | 315 | 2 | | | | | Mandarin* | 15225 | 315 | 4 |
| 0300 | 0330 | | | | | Mandarin* | 13720 | 315 | 2 | | | | | Mandarin* | 15225 | 315 | 4 |
| 0330 | 0400 | | | | | Mandarin* | 13720 | 315 | 2 | | | | | Mandarin* | 15225 | 315 | 4 |
| | | | | | | OFF THE AIR | | | | | | | | OFF THE AIR | | | |
| 1000 | 1030 | Mandarin | 11980 | 315 | 1 | Minnan | 15225 | 315 | 2 | English | 9370 | 345 | 3 | Russian | 9530 | 345 | 4 |
| 1030 | 1100 | Mandarin | 11980 | 315 | 1 | Hakka | 15225 | 315 | 2 | English | 9370 | 345 | 3 | English | 9530 | 345 | 4 |
| 1100 | 1130 | Mandarin | 11980 | 315 | 1 | Indonesian | 13720 | 255 | 2 | Cantonese | 9370 | 315 | 3 | Mandarin | 15225 | 315 | 4 |
| 1130 | 1200 | Mandarin | 11980 | 315 | 1 | Indonesian | 13720 | 255 | 2 | Shanghaines | 9370 | 315 | 3 | Mandarin | 15225 | 315 | 4 |
| 1200 | 1230 | Vietnamese | 11850 | 270 | 1 | Filipino© | 13720 | 270 | 2 | Mandarin | 9370 | 315 | 3 | Korean | 9650 | 330 | 4 |
| 1230 | 1300 | Vietnamese | 11850 | 270 | 1 | Filipino© | 13720 | 270 | 2 | Mandarin | 9370 | 315 | 3 | Korean | 9650 | 330 | 4 |
| 1300 | 1330 | Mandarin | 11980 | 300 | 1 | Bangla | 13720 | 285 | 2 | Mandarin | 7455 | 315 | 3 | Japanese | 9650 | 345 | 4 |
| 1330 | 1400 | Mandarin | 11980 | 300 | 1 | Bangla | 13720 | 285 | 2 | Mandarin | 7455 | 315 | 3 | English | 9650 | 345 | 4 |
| 1400 | 1430 | Sinhalese | 7395 | 270 | 1 | Mandarin | 11980 | 300 | 2 | Mandarin | 7455 | 315 | 3 | Burmese | 9370 | 285 | 4 |
| 1430 | 1500 | Sinhalese | 7395 | 270 | 1 | Mandarin | 11980 | 300 | 2 | Mandarin | 7455 | 315 | 3 | Burmese | 9370 | 285 | 4 |
| 1500 | 1530 | Tamil | 7395 | 270 | 1 | Telugu | 11980 | 270 | 2 | Hindi | 9385 | 285 | 3 | Punj/Malam | 9370 | 285 | 4 |
| 1530 | 1600 | Kannada | 7395 | 270 | 1 | Marathi | 11980 | 270 | 2 | Hindi | 9385 | 285 | 3 | Punj/Malam | 9370 | 285 | 4 |
| 1600 | 1630 | English | 7395 | 285 | 1 | | | | | Arabic* * * | 7540 | 300 | 3 | Arabic * * | 13840 | 300 | 4 |
| 1630 | 1700 | English | 7395 | 285 | 1 | | | | | Arabic* * * | 7540 | 300 | 3 | Arabic * * | 13840 | 300 | 4 |
| 1700 | 1730 | Farsi | 9370 | 300 | 1 | | | | | Arabic* * * | 7540 | 300 | 3 | Arabic * * | 13840 | 300 | 4 |
| 1730 | 1800 | English | 9370 | 300 | 1 | | | | | Arabic* * * | 7540 | 300 | 3 | Arabic * * | 13840 | 300 | 4 |
| | | OFF THE AIR | | | | | | | | OFF THE AIR | | | | OFF THE AIR | | | |
| 2000 | 2030 | | | | | | | | | Korean | 5950 | 330 | 3 | Korean | 9495 | 330 | 4 |
| 2030 | 2100 | | | | | | | | | Korean | 5950 | 330 | 3 | Korean | 9495 | 330 | 4 |
| 2100 | 2130 | | | | | | | | | Mandarin | 9370 | 315 | 3 | Japanese | 15310 | 345 | 4 |
| 2130 | 2200 | | | | | | | | | Mandarin | 9370 | 315 | 3 | English | 15310 | 345 | 4 |
| 2200 | 2230 | Indonesian | 9635 | 255 | 1 | Vietnamese | 11775 | 270 | 2 | Mandarin | 11980 | 315 | 3 | Mandarin | 15225 | 315 | 4 |
| 2230 | 2300 | Indonesian | 9635 | 255 | 1 | Vietnamese | 11775 | 270 | 2 | Mandarin | 11980 | 315 | 3 | Mandarin | 15225 | 315 | 4 |
| 2300 | 2330 | English | 11775 | 270 | 1 | Mandarin | 15610 | 315 | 2 | Cantonese | 11980 | 315 | 3 | Mandarin | 15225 | 315 | 4 |
| 2330 | 0000 | English | 11775 | 270 | 1 | Mandarin | 15610 | 315 | 2 | Shanghaines | 11980 | 315 | 3 | Mandarin | 15225 | 315 | 4 |

* Broadcasts on Saturday and Sundays only

©Sat, Tue, Fri - Tagalog: Sun, Thur, - Ilonggo: Mon, Wed - Cebuano

Punjabi: Tue, Thur, Sat; Malayalam: Sun, Mon, Wed, Fri.

Marathi: Mon, Wed, Fri: Telugu; Sun, Tue, Thur, Sat

Tamil: Mon, Wed, Fri; Kannada: Tue, Thur, Sat, Sun

* * Effective March 31, 1996 to September 1, 1996

* * * Effective September 1, 1996 to October 27, 1996

23 Feb. 1996

Glenn: (Lubbock, TX)

Last night, while trying to listen to Radio Portugal on 9570 kHz 0230 UTC, VOA tuned up transmitter for 9575 broadcast at 0300 UTC beginning at 0235 with loud tones and then just open carrier - totally wiped out Radio Portugal. I sent a nasty note via fax to Greenville.

This morning, I received a call from an engineer at Greenville, Macon Dale. He is a very pleasant person. First, he stated that VOA had the right to start up 30 minutes in advance of the broadcast and I told him I realized that. I stated that generally at this hour of the day they waited until about 10 til the hour before bringing the carrier up. He further stated that they lost their "normal" transmitter last night and had to fire up a 500 kilowatt job and were checking to see if everything was working. He stated that Africa was their target and that he was amazed that I was getting such a strong signal from the back.

He then suggested that I move the angle of my antenna to avoid their signal. I asked him why I would do such a thing as the signal I wanted to hear was coming from that direction and that VOA was in the center, with me on one side and Portugal on the other. He said "Well, the transmitter may be someplace else." I responded with "No, I was over there last summer and saw the antenna farm on the outskirts of Lisbon on the road to Sintra."

He then stated that he would have a chat with the guys and see if they could hold off turning the carrier on until it was necessary. He further stated that he appreciated my taking the time to report, even if was a gripe, because they never hear anything about their signal from U.S. Dxers.

I also mentioned that I had not experienced the problem until Portugal switched the English broadcast from 0130 to 0230 UTC. I told him I would visit with Winnie Almeida and see where they planned to be after the time change next month and to mention the VOA problem to her.

I would suggest that our friends and neighbors take the time to write VOA occasionally when they hear jamming in or around a VOA freq. or other problems they notice.

Gigi Lytle

MORE FREQUENCY SCHEDULES As technical monitor for these stations I will be happy to send your readers frequency schedules for an SASE: R Australia, BBC WS, China R Intl, R France Intl, RAI in Rome, Israel R, V of Turkey (George J Poppin, 2654 Seventeenth Ave, San Francisco CA 94116)



## WEWN announces its summer frequency schedule (tentative) beginning March 31, 1996 through September 29, 1996

(via Ron Trotto, Bill Flynn, Diane Mauer)

| Eastern | North America | South America | Europe | UTC |
|---|---|---|---|---|
| 7PM | 7425 | 15375 | 5825 | 0000 |
| 8PM | 7425 | 15375 | 5825 | 0100 |
| 9PM | 7425 | 15375 | 5825 | 0200 |
| 10PM | 7425 | 11715 | 5825 | 0300 |
| 11PM | 7425 | 11715 | 5825 | 0400 |
| 12AM | 7425 | 11715 | 5825 | 0500 |
| 1AM | 7425 | 11715 | 5825 | 0600 |
| 2AM | 7425 | 11715 | 5825 | 0700 |
| 3AM | 7425 | 5960 | 5825 | 0800 |
| 4AM | 7425 | 5960 | 5825 | 0900 |
| 5AM | 7425 | 5960 | 15665 | 1000 |
| 6AM | 7425 | 9475 | 15665 | 1100 |
| 7AM | 7425 | 9475 | 15665 | 1200 |
| 8AM | 9580/11875 | 9475 | 15665 | 1300 |
| 9AM | 9580/11875 | 15375 | 15665 | 1400 |
| 10AM | 9580/11875 | 15375 | 15665 | 1500 |
| 11AM | 11875/13615 | 15375 | 15665 | 1600 |
| 12PM | 11875/13615 | 15375 | 15665 | 1700 |
| 1PM | 11875/13615 | 15375 | 13695 | 1800 |
| 2PM | 11875/13615 | 15375 | 13695 | 1900 |
| 3PM | 7425/13615 | 15375 | 13695 | 2000 |
| 4PM | 7425/13615 | 15375 | 13695 | 2100 |
| 5PM | 7425/13615 | 15375 | 11820 | 2200 |
| 6PM | 7425/13615 | 15375 | 11820 | 2300 |

Frequencies are subject to change. Changes will be announced in advance at the beginning of the hour as early as possible.

DEATH IN THE ANDES Those enthralled with Perú as result of DXing should read the novels of Mario Vargas Llosa, latest being this; see review in Atlantic, March, p. 122; 271 pp, $24 from Farrar, Straus & Giroux (GH)

FREE CATALOGS Grove, Mar-Apr, 1-800-438-8155; Box 98, Brasstown, NC 28902. Universal Radio, 1-800-431-3939; Cat 96-01. By first class $1 required to 6830 Americana Pkwy, Reynoldsburg, OH 43068.

1995 CLANDESTINE ACTIVITY SURVEY

By: Mathias Kropf (via ARDXC Electronic DX Press via George Thurman)

The global activity of political clandestine stations on shortwave has dropped by 10% to 1591 Weekly Broadcasting Hours (WBHs) in 1995. The activity to Asian target areas has dcresed by 11% to 953 WBHs and the activity to African target areas has decreased by 17% to 345 WBHs. On the American continent, activity has increased by 3% to 261 WBHs. Also, activity to Oceania is listed with 32 WBHs.

The number of active target areas has decreased from 24 to 23 countries. When compared with the previous year, Vietnam, Mozambique and Egypt are no longer listed, while on the other hand, Sudan (last previous activity reported in 1993) and Eritrea (listed for the first time since its independence) have (re)-joined the list of active target areas.

The three most active target areas on a worldwide basis are still Iraq with 291 WBHs, Cuba with 249 WBHs and Iran with 170 WBHs.

This latest drop in global clandestine broadcasting means that the activity has now reached its lowest level in the history of this study that has been compiled annually since 1986. The highest level of activity was reported in 1990 with 2284 WBHs.

* Asia *

Still on top of the list of Asian target areas (as well as worldwide) is Iraq where the activity has increased by another 5% to 291 WBHs over the past 12 months. Next on the list is Iran where the activity is now 170 WBHs - this is the lowest activity for this target area in the history of the study. The high was 324 WBHs in 1987. It is thought that there are two reasons for this: (i) more and more resources seem to be redirected to its neighbour, Iraq; (ii) parts of the Iranian opposition in exile that have been organized quite well for many years are now probably showing signs of disintegration. North Korea (DPR) is listed with 140 WBHs and South Korea (ROK) with 112 WBHs, both remaining unchanged from the previous year. They are followed by Israel with 81 WBHs. Activity to Israel (ie. Palestinian programmes) is now down quite a bit from its high of 119 WBHs in 1990, but probably not as much as one might expect in relation to the latest political situation.

Saudi Arabia is still active with 49 WBHs, followed by Cambodia with 35 WBHs. Next are Tajikistan with 19 WBHs and India, Afghanistan and China (PR) with 14 WBHs each. Activity to Afghanistan has now also reached a new low in the history of this study, the high being 116 WBHs in 1987.

Finally, Turkey and Myanmar (Burma) are listed with 7 WBHs each. Vietnam, which was still shown with 7 WBHs last year, is no longer reported active.

* Africa *

Activity to Somalia has now reached a new high with 155 WBHs. In Somalia some kind of lawless situation exists (reminiscent of the Lebanese situation during the 1980's), so even among experts there are different opinions on what is a clandestine station and what is not.

Next on the list is Angola with 97 WBHs, followed by Morocco with 49 WBHs. Sudan is listed active again with 35 WBHs, followed by the East African countries of Eritrea and Ethiopia with 7 and 2 WBHs respectively.

Two African target areas, Mozambique and Egypt are no longer reported active, whereas last year Mozambique was shown with 112 and Egypt with 4 WBHs.

* America *

On the American continent, activity has remained more or less stable from last year. Cuba is listed with 249 WBHs. Guatemala and Colombia are shown with 6 WBHs each.

* Oceania *

In Oceania, Papua New Guinea is now shown with 32 WBHs. This is a new high for PNG which has been listed active since 1992 [due to Radio Free Bougainville].

* Outlook *

These days, many governments are cutting their budgets for international broadcasting rather dramatically and it seems certain that this will have even further implications for clandestine broadcasting as well. Unless some major new crisis develops somewhere, I expect global clandestine activity to drop into the 3-digit numbers (ie. another 30% decrease from its present level of activity) before the year 2000.

*****

Thanks to Mathias for his exhaustive research and making the results of his 1995 survey available to us. For a thorough discussion and retrospective look at clandestine broadcasting on shortwave 20 years ago, refer to the survey article 'Clandestine Broadcasting - 1975' by Lawrence Magne which appears in the "Listen To The World" section of the WRTH 1976. More recently, the 1992 compilation by Mathias Kropf appears as the article 'Clandestine Radio Survey' in the WRTH 1993.

If you are interested in actively monitoring clandestine radio activity on shortwave, the most useful reference is 'The Clandestine Stations List' (May 1995 edition) edited by Finn Krone. This 20-page publication lists all known clandestine stations/frequencies with extensive background information. It is available for 10 IRC's airmail delivery from Danish Shortwave Clubs International, DK-2670 Greve, Denmark. (World Radio Report from Ontario DX Association, February 1996).

GERMANY [NON] DW RE-VISED SKED 22/2 FOR NEW RUSSIAN RELAYS RE PLACING MALTA, AND WHILST SRI LANKA IS OFF AIR (VIA ANDREAS VOLK VIA BOB PADULA, ARDXC EDXP, THURMAN)

| | | | |
|---|---|---|---|
| 5925 | IRK | JJ | 1100-1130 |
| 5895 | PET | CC | 1200-1320 |
| 5925 | NOV | GG | 2200-0000 |
| 5925 | IRK | RR | 2100-2150 |
| 5925 | SAM | RR | 0000-0050 |
| 5945 | SAM | RR | 1600-1755 |
| 5945 | SAM | RR | 1800-1930 |
| 6055 | TAS | BEN | 0100-0150 |
| 6140 | KRA | PER | 1800-1850 |
| 7130 | NOV | JJ | 2200-2250 |
| 7150 | NOV | EE | 2300-2350 |
| 7225 | TAS | EE | 1600-1650 |
| 7225 | TAS | UR/HI | 1430-1600 |
| 7265 | TAS | EE | 0200-0250 |
| 7265 | KRA | AA | 1900-2120 |
| 7305 | NOV | EE | 1600-1650 |
| 7305 | NOV | UR/HI | 1430-1600 |
| 7315 | SAM | GG | 1400-1800 |
| 7315 | NOV | IND | 2200-2250 |
| 7340 | NOV | GG | 1000-1400 |
| 7355 | SAM | EE | 0200-0350 |
| 7355 | NOV | BEN | 0100-0150 |
| 7380 | IRK | EE | 0900-0950 |
| 7390 | NOV | CC | 1200-1320 |
| 7390 | PET | JJ | 1100-1130 |
| 7445 | SAM | GG | 1800-2000 |
| 9525 | NOV | GG | 0000-0300 |
| 9670 | IRK | EE | 2100-2150 |
| 9815 | PET | RR | 0000-0050 |
| 9850 | CHI | IND | 1330-1420 |
| 9865 | VLA | RR | 0000-0050 |
| 9875 | KRA | AA | 0400-0550 |
| 15525 | SAM | PERS | 1000-1050 |
| 17845 | NOV | GG | 0600-1000 |

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(NY Times, Feb. 6, 1996 via Malcolm Kaufman & Chet Copeland)

# *Hard Pressed, Grundig Will Lay Off 3,000*

## *Dutch Parent to Halt Financing in 1997*

By NATHANIEL C. NASH

FRANKFURT, Feb. 5 — German industry's pride and strength were dealt another blow today when the country's premier maker of consumer electronics, Grundig A.G., announced a severe retrenchment.

Grundig said it would lay off almost one-third of its work force, report a huge loss for 1995, and lose the financial backing of its parent company, **Philips Electronics** of the Netherlands, after 1996.

The move was reminiscent of one by **Daimler-Benz** two weeks ago, when the giant German car and truck company announced that it would no longer cover losses at its Fokker commuter-aircraft unit in the Netherlands, essentially forcing the company to find a partner to pump in more cash or face bankruptcy.

Grundig officials said there was no connection between the two cutback plans, and objected to any comparisons. But they added that despite three years of sharp reduction of the company's work force, Grundig was still unable to compete profitably in the television market. The 1995 loss will be the fourth in a row.

"The expectation expressed at the beginning of the year to end the year in the black, or at least break even, was not fulfilled," the chairman, Pieter W. van der Wal, said in a statement, adding that Grundig's "indisputable restructuring successes have been canceled out by a drop in prices, higher labor costs and currency-linked losses."

Grundig said it would lay off 3,000 of its 11,400 workers — down from a peak of 20,500 in 1992 — and report a loss of almost $230 million for 1995. It also said that a management contract under which Philips covered all losses would end as of Dec. 31, and that starting in 1997, the company would be required to stand on its own.

Philips owns 32 percent of Grundig, but has convertible debt that gives it effective control.

The announcement could hardly have come at a worse time for German industry. In the last three weeks, it has become starkly clear that a strong mark, high wages, increasing competition from Asia and a slowing German and European economy have rapidly brought this country's growth to a standstill.

Unemployment has risen to almost 10 percent, with four million people jobless and little real hope of bring many of them back into the work force.

Many German companies have resisted radical reorganization of their operations, but now seem so pressed that they are concluding there are few options other than announcing big cuts in manufacturing jobs, mirroring moves by American corporate executives.

In many ways, Grundig symbolizes such changes. A company that at one time was known for its quality, engineering and design skills, Grundig failed to remain competitive with its Asian competitors.

Based in the Bavarian city of Fürth, near Nuremberg, the company makes television sets, videocassette recorders and audio equipment that tend to be much more expensive than its Japanese competitors, and of late it has seen inventories of unsold appliances pile up in warehouses.

"On the whole, the TV is a commodity product," said Angela Dean, European electronics analyst at Morgan Stanley in London, "and Europeans are not geared up for commodity manufacturing. It's pretty hard to make TV's competitively in Europe."

Philips seems prepared to bear the current restructuring costs of Grundig, estimated at almost $200 million, whereas Daimler-Benz refused to inject new money into Fokker after the Dutch Government refused to do likewise.

The corporate-restructuring patterns are similar, with managers at the parent company placing a premium on profitability, rather than holding onto a struggling subsidiary for strategic business reasons.

Relations between German and Dutch companies are involved in both cases, but with Grundig, the parent company is Dutch, forcing layoffs and revamping at a German subsidiary.

After Daimler withdrew support for Fokker, Dutch sentiment turned strongly anti-German, and the move now by Philips may well be seen in a nationalistic light in the Netherlands.

But analysts said it had been evident for awhile that Philips was impatient with the pace of change at Grundig, and just in the last week installed Mr. van der Wal, giving him carte blanche to impose whatever cuts in the work force he felt were needed.

*J.L. Gorski & Associates Consultants*

Press Release: For immediate release
Subject: AM-FM, & Shortwave Transmitters

Vinton Iowa, J.L. Gorski & Associates has recently been appointed U.S. distributor of Elcor broadcast products. Elcor has been manufacturing AM, FM, & Shortwave radio transmitters, and a complete line of accessories, since 1960.

Elcor transmitters use American technology and parts, and are very reliable, and easy to maintain. Elcor can provide transmitters from 40 watts thru 1000 Kilowatts, as well as FM. antennas and transmission lines, and transmission line hardware. Elcor also manufactures a complete line of audio consoles and audio processors.

J.L. Gorski & Associates will provide complete 24 Hr. technical support and parts service for all Elcor products.

Financing and leasing of all Elcor products is also available. For more information, contact J.L. Gorski & Associates in Iowa at (319)-472-5102 - voice or fax

CLANDESTINE—*R. Patria Libre;* I found 3 mentions of the ELN on the Internet. This is the group that operates (operated?) R. Patria Libre in Colombia. We have always been unsuccessful in finding out much about them, particularly figuring out an addr for the stn. They are listed in the Terrorist Profile Weekly at http://www.site.gmu.edu/~cdibona/nla.html as a "rural-based, anti-US, Maoist-Marxist-Leninist guerrilla group formed in 1963. Engaged in unsuccessful peace talks with the Government of Colombia during 1991. Periodically kidnaps foreign employees of large corporations and holds them for very large ransom payments. Extortion and bombing attacks against US and other fireign businesses in Colombia, particularly the petroleum industry. Has inflicted major damage on oil pipelines since 1986. In the past received limited arms and training from Cuba and training from Nicaragua." Their strength is listed at 1,000 to 2,000 Unfortunately, there is no mention of the stn or an ELN addr. On another web site,! the far leftist Nicaragua Solidarity Network of Greater New York (212) 674-9499, in a newsletter dated 10/29/96, said ELN guerrillas attacked the Cararabo border outpost with Venezuela on 2/26/95, killing eight Venezuelan marines, leading Venezuelan police to kill and injure a couple of dozen civilians in Cararabo. Three Venezuelan navy officers faced charges in this incident. I have a third file about military activities in the region, but it is in Spanish, and I'm still working on decoding it. This is the most info that I have ever seen in one place abt the ELN, although their stn seems inactive lately. (ZELLER) [FINE TUNING]

# Federales investigan a Mas Canosa

**Por Juan A. Hernández**

La oficina del inspector general de la Agencia de Información de Estados Unidos (USIA por sus siglas en inglés) está llevando a cabo una investigación desde el año pasado sobre las actividades de tres ejecutivos de Radio Martí, incluyendo a Jorge Mas Canosa, presidente de la Fundación Nacional Cubano-Americana.

Junto con Mas Canosa, presidente de la junta consultora de Radio Martí, son investigados Richard Lobo, ex-director de la Oficina para la Transmisión a Cuba (OCB por sus siglas en inglés), y Rolando Bonachea, actual director interino de la OCB.

De acuerdo con la inspectora general de la USIA, Marian C. Bennett, los hallazgos preliminares de la investigación señalan un minucioso patrón de intervención política por parte de Mas Canosa y otros funcionarios de Radio Martí que han afectado las iniciativas y acuerdos migratorios entre Estados Unidos y Cuba, ridiculizando a funcionarios del gobierno federal y provocando quejas de varias agencias federales.

La investigación de la USIA parece haber levantado una fuerte oposición en los círculos del exilio cubano en el estado de la Florida de manera que, incluso las propias personas investigadas, se han rehusado sistemáticamente a cooperar con la investigación, a pesar de ser empleados del gobierno federal.

Bonachea es uno de los ejecutivos de la estación que se ha resistido cooperar con la investigación, aunque como empleado federal viene obligado a prestar declaraciones y presentar documentos.

Mas Canosa por su parte, ha dicho que "no desea prestar ninguna legitimidad a lo que se ha convertido en una cacería de brujas," según informó un vocero suyo. A pesar de que Mas Canosa no es empleado del gobierno de Estados Unidos, el hecho de que como presidente de la junta de Radio Martí sea el administrador de un presupuesto de $184 mil en fondos federales plantea la posibilidad de que esté sujeto a las disposiciones que afectan a los empleados federales.

Sin embargo, las gestiones de Mas Canosa para evadir la investigación de la USIA parecen estar dando frutos. El empresario cubano a conseguido levantar cuestionamientos en torno a la investigación de Bennett entre un grupo de congresistas que apoyan el embargo norteamericano a Cuba, entre ellos los republicanos Lincoln Díaz Baralt e Ileana Ros-Lehtinen. estos congresistas han acusado a Bennett de irregularidades en la investigación de la OCB y Radio Martí, y han solicitado que el "General Accounting Office" (GAO) determine si la investigación ha sido viciada.

Mas Canosa ha presidido la junta de Radio Martí desde su creación en 1985, aunque su permanencia en la posición está sujeta a la discreción del presidente de Estados Unidos. No obstante, funcionarios de la administración de Bill Clinton han expresado preocupación a la hora de antagonizar con el influyente empresario cubano en medio de una campaña presidencial.

Mas Canosa preside la Fundación Nacional Cubano-Americana (FNCA). Dicha organización está compuesta por poderosos empresarios cubanos exiliados que cabildean a favor de medidas políticas de parte del gobierno de Estados Unidos para provocar una crisis política en Cuba que les permita asumir el control de la mayor de las Antillas.

Las acciones de los miembros de la FNCA han estado revestidas en numerosas instancias de vicios de ilegalidad, que en ocasiones han llegado al grado de delitos. Esta semana fue arrestado y acusado de fraude bancario por un Gran Jurado Federal en San juan el arquitecto Ariel Gutiérrez, cubano exiliado ex-presidente de la Junta de Directores del capítulo de Puerto Rico de la FNCA.

Gutiérrez viene a unirse a Eduardo López Ballori, también miembro del capítulo de Puerto Rico de la FNCA, que cumple una sentencia por desviar ilegalmente fondos a la campaña electoral del senador neoyorquino Alfonso D'Amato.

PEOPLE'S WEEKLY WORLD
12/9/95, p. 23
(Via Owen Williamson)



# Radio Marti move to

(Miami Herald, Dec 20, 1995 via Aaron Pilchick)

ter station, Television Marti, to South Florida by April 1, 1996.

The provision, presented without benefit of congressional hearings, was approved with little debate in conference committee.

**By CHRISTOPHER MARQUIS**
**Herald Staff Writer**

WASHINGTON — Radio Marti, already beset by internal divisions and the subject of three federal probes, is embroiled in yet another controversy as Congress and the Clinton administration clash over a proposal to relocate the station to Miami.

Advocates of the move say it will save the federal government millions of dollars a year by establishing the headquarters of the broadcasts to Cuba nearer to the intended audience and within easier reach of Cuban-American expertise and voices in South Florida.

But critics charge that such a move would spell disaster for the taxpayer-funded station, which is based in Washington, by distancing it from federal oversight and immersing it further in the highly politicized atmosphere of Miami's Cuban community.

"Putting the headquarters for Cuban broadcasting closer to the object of the broadcasts and closer to the heart of the Cuban-American community just makes sense," said Larry Neal, a spokesman for Sen. Phil Gramm, R-Texas.

Gramm, seizing on a report by the General Services Administration claiming a move to Miami could save up to $5 million a year, introduced legislation to relocate Radio Marti and its sis-

## Caught in a veto

President Clinton on Tuesday vetoed the massive funding bill for the Commerce, State and Justice departments, which contained the measure. In explaining his veto, Clinton made no mention of the proposed move for Marti, and aides said it was a "small detail" compared to his other objections to the bill.

But virtually no one believes the effort will end there. And David Burke, chairman of the bipartisan Broadcasting Board of Governors, which oversees all U.S. government broadcasts, is pressing Congress to reconsider.

"I have been asked to convey to you . . . our strong concern that the proposed move would significantly hinder the necessary and appropriate editorial and managerial oversight of the Cuba broadcasting operation," Burke told congressional appropriators in a Dec. 6 letter, which was obtained by The Herald.

Joseph Duffey, the director of the United States Information Agency, which directly supervises Radio and TV Marti, said the proposed move "ought to be looked at more carefully."

# Miami isn't dead

In an interview Tuesday, Duffey questioned the projected $5 million annual savings, saying they were based on predictions that a number of Marti employees would refuse to leave Washington, thus eliminating their salaries from the $28.7 million budget. Moving the station would cost about $7 million, according to the GSA study.

"I've not been persuaded that the savings cited in the study are real," Duffey said.

The chairman of the president's advisory board for the Office of Cuban Broadcasting, Jorge Mas Canosa, has long sought the move to Miami, even as he has been criticized for using Radio Marti as a mouthpiece for the Miami-based Cuban American National Foundation.

## USIA investigation

The USIA inspector general is trying to conclude a year-long investigation into charges of political interference, cronyism and harassment by Mas and others at the station. Two other agencies — the General Accounting Office and the President's Council on Integrity and Efficiency — have also opened probes.

But the USIA investigation has been stalled by the refusal of Mas, acting director Rolando Bonachea and former director Richard Lobo to testify. Marian C. Bennett, the USIA inspector general, has asked Duffey to order Bonachea — a federal employee who earns about $112,000 a year — to cooperate.

Duffey said Tuesday that he has instructed Bonachea — the only one under his authority — to testify. But he has avoided issuing a direct order and is seeking assurance from Bennett that any testimony by Bonachea would not be used against him in criminal court.

Bennett has so far refused that request, Duffey said, although he added that he knows of no criminal charges being contemplated.

(& via George Thurman)

MONITOR RADIO INTERNATIONAL
W-95 SHORTWAVE FREQUENCY SCHEDULE 03/05/96 to 03/26/96 NORMAL

| WSHB - 1 032.41.02N 081.07.51W | | | | WSHB - 2 032.41.02N 081.07.51W | | | |
|---|---|---|---|---|---|---|---|
| UTC | FREQUENCY | | REGION | FREQUENCY | | | REGION |
| 0000 | 9430 kHz,31m | 167 | C & S Amer | 7535 kHz,41m | 25/173 | | Ea No Am/Carib |
| 0100 | 7535 kHz,41m | 315 | Cent No Am | 9430 kHz,31m | 167 | | Cent & So Amer |
| 0200 | 5850 kHz,49m | 315 | W & C NoAm | 9430 kHz,31m | 245 | | Mexico |
| 0300 | 5850 kHz,49m | 315 | We No Amer | 7535 kHz,41m | 72 | | East Africa |
| 0400 | 7535 kHz,41m | 25 | Ea Eur/Rus. | 9840 kHz,31m | 87 | | Cent & So Afr |
| 0500 | 7535 kHz,41m | 42 | Cent Europe | | | | |
| 0600 | 7535 kHz,41m | 57 | We Europe | | | | |
| 0700 | 7535 kHz,41m | 57 | We Europe | | | | |
| 0800 | 7535 kHz,41m | 42 | Europe | | | | |
| 0900 | 7535 kHz,41m | 42 | Europe | 7395 kHz,41m | 137 | | Brazil/ So Am |
| 1000 | 6095 kHz,49m | 25/173 | ENAm/Carib | 7395 kHz,41m | 152 | | South America |
| 1100 | 6095 kHz,49m | 25/173 | ENAm/Carib | 7395 kHz,41m | 167 | | Cent & So Am |
| 1200 | 6095 kHz,49m | 25/173 | ENAm/Carib | 9455 kHz,31m | 167 | | Cent & So Am |
| 1300 | 6095 kHz,49m | 315 | Cent No Am | 9455 kHz,31m | 245 | | Mexico |
| 1400 | | | | | | | |
| 1500 | | | | | | | |
| 1600 | | | | 18930 kHz,15m | 72 | | East Africa |
| 1700 | | | | 18930 kHz,15m | 87 | | Central Africa |
| 1800 | 15665 kHz,19m | 25 | Ea Europe | 18930 kHz,15m | 102 | | South Africa |
| 1900 | 15665 kHz,19m | 25 | Ea Europe | 17510 kHz,16m | 87 | | West Africa |
| 2000 | 13770 kHz,22m | 42 | We Europe | 11550 kHz,25m | 25 | | Europe |
| 2100 | 13770 kHz,22m | 42 | We Europe | 11550 kHz,25m | 25 | | ENAm /Europe |
| 2200 | 7510 kHz,41m | 57 | We Europe | 13770 kHz,22m | 137 | | Brazil |
| 2300 | 7510 kHz,41m | 72 | SoEur/WeAfr | 13770 kHz,22m | 167 | | South America |

| KHBI - 1 015.07.20N 145.41.37E | | | | KHBI - 2 015.07.20N 145.41.37E | | | |
|---|---|---|---|---|---|---|---|
| UTC | FREQUENCY | | REGION | FREQUENCY | | | REGION |
| 0800 | 15665 kHz,19m | 325 | East Europe | 13615 kHz,22m | 165 | | New Zealand |
| 0900 | 9430 kHz,31m | 355 | Ja/Kor/Russia | 13615 kHz,22m | 195 | | Australia |
| 1000 | 13625 kHz,22m | 240 | Indonesia | 9430 kHz,31m | 310 | | China |
| 1100 | 9355 kHz,31m | 340 | Ja/Kor/Russia | 9430 kHz,31m | 195 | | Australia |
| 1200 | 9355 kHz,31m | 285 | So Ea Asia | 9430 kHz,31m | 195 | | Australia |
| 1300 | 9355 kHz,31m | 285 | India | 13840 kHz,22m | 225 | | Indonesia |
| 1400 | 9355 kHz,31m | 285 | India/China | | | | |
| 1500 | 9355 kHz,31m | 285 | India/China | | | | |
| 1600 | 11550 kHz,25m | 325 | East Europe | 9355 kHz,31m | 255 | | South Africa |
| 1700 | 11550 kHz,25m | 325 | East Europe | 9355 kHz,31m | 255 | | South Africa |
| 1800 | 9355 kHz,31m | 325 | Eur/Mid East | 9385 kHz,31m | 255 | | South Africa |
| 1900 | 9355 kHz,31m | 325 | Eur/Mid East | 9385 kHz,31m | 255 | | South Africa |
| 2000 | | | | 11860 kHz,25m | 165 | | New Zealand |
| 2100 | | | | 13840 kHz,22m | 180 | | Australia |
| 2200 | 13840 kHz,22m | 340 | Ja/Kor/Russia | 9430 kHz,31m | 310 | | China |
| 2300 | 13625 kHz,22m | 240 | Indonesia | 9430 kHz,31m | 310 | | China |

# CRI English Language Programs for Overseas

(via Gigi Lytle, Bob Thomas, MT)

The CRI English Service for overseas (also heard domestically some hours during the day) starts with 10 minutes of world news, followed by home news and a news analysis on international events. The latter is substituted by Asia-Pacific News and Sports Beat on Saturdays and Sundays.

The rest of the hour is taken up by the following programs:

Current Affairs (Monday to Friday), with several in-depth reports on developments in China.

China's Open Windows (Monday), featuring developments in various parts of China in the modernization drive.

Orient Arena (Tuesday), bringing you up-to-date on sports in China.

Profile (Wednesday), introducing you to people of all walks of life, their achievements and problems, their thoughts and feelings.

Focus (Thursday), presenting listeners with some of the issues of concern to the ordinary Chinese people.

Life in China (Friday), acquainting you with the lifestyle of people engaged in different types of work, belonging to different income brackets and having different interests.

The last 10 minutes of the hour are devoted to:

Learn to Speak Chinese (Monday), a regular language teaching course specially prepared for overseas listeners.

Listeners' Letterbox (Tuesday), a repeat of Sunday's same program.

Idioms and Their Stories (Wednesday)

Cultural Spectrum (Thursday)

Global Review (Friday)

Weekend Features (coming after Asia-Pacific News and Sports Beat) include:

Saturday:

Travel Talk

The Cooking Show (with recipes and tips for cooking Chinese dishes) China Scrapbook (with fascinating stories from the past and the present, dealing with a great variety of interesting topics)

Music from China

Sunday:

Listeners' Letterbox (reading excerpts from listeners' letters and answering listeners' questions about China)

In the Third World

Snapshots bring you around cities and towns in China, focusing on the residents' life, habits and customs, especially their distinct features with local flavor.

Song of the Week

The English Service welcomes comments and suggestions from all listeners around the world.

Kenora, Ontario.
January 17, 1996.

Glenn Hauser,
P.O. Box 1684,
E n i d, OK 73702

Albania - Trans World Radio, 7385.1 , with Polish pgm *0615-0630*, vy strong 11/1 only, when RFPI was off. TWR on 7384.9 & //9454.9v in Farsi at *1727-1759*, since 7/1; are both fqcs from Albania ?

Canada - CFCX Montreal, 6005, hrd 17/1 from 1300 with "CIQC-600" ID & EG pgm past 1400; last time I heard them, they were relaying CKOI in FR; how often do they switch stn relay & lang ?

India - AIR heard on two USB xmtrs: 13732U from 1900 in AR, 1945 FR to 2030*; 13750U from 1900 in EG to 1945*; both good 30/12; are xmtr sites known ? 73/2 -

Lthuania - Lithuanian Radio, 9710v, heard at 1500-1600 in Lith; good sig almost daily since mid-Dec, but fqcy varies, usually on 9709.8 or 9709.9 ; only once, 16/1, on 9710.0 ; best chance to hear a xmtr from Lithuania, not a relay.

Paraguay - R Nacional has been running out of control around 9520v since 14/12 , a distorted mess covering one-third of the band from 9470 to 9570v every night & still there 16/1; how much longer will this continue before somebody wakes up and shuts off the xmtr ? How about a phone call to the stn from the editor of PWBR in Paraguay ?

Seychelles - FEBA on 9440, from *1700 in AR to 1802*v, then switches to 9455 from *1802 to 1833*v in Farsi; both vy strong since 7/1. New time for AR bcst ?

Turkey - V of Turkey, 11725, from 0100 in Turkish past 0600; new powerhouse xmtr hrd 14/1; vy strong sig & audio, much better than 9445 & 9460 which have been running almost without modulation for years.

Vatican - Vatican Radio on 9940, from*1500 in SAs langs, 1600 EG to 1628*v , hrd 6/1 w/QRM from Cuban jammer.

Cuba - RHC on 6070, hrd 17/1 from 1300 in SP, wiping out CFRX; I hope somebody complains about this to Arnie Coro; why are we putting up with Cuban jammers & QRM without any protest ?

I heard Bro. Stair complain about WGTG, after they took him off the air. I understand he leased the stn last fall, but they started running other pgms without charging any fees. They accept only donations for airtime.

A new talk show on WWCR 12160 is "Freedom Calls" at 1605, hosted by Col.Bo Gritz, most decorated soldier of the Vietnam war, who grew up and went to school in Enid, OK, as he mentioned recently. Pgm is repeated at 0705 on 5065. He was on WINB last year, until the stn went off the air.

Brazil - R Cultura de Foz do Iguaçu, Parana, on 6105.1 , is now one of the best Braz sigs on the band; hrd since 30/1 from 0600 to 0800 w/IDs & mx; maybe a new xmtr.

Paraguay - R Nacional has disappeared from SW, after you mentioned the distorted sig around 9520v on WoR in late Jan. But we now have another big mess from 9480 to 9570v, caused by a defective RHC xmtr since early Feb.

Kenora, Ontario.
Feb.13, 1996.

Glenn:

What is happening at WWCR ? They used to have excellent audio quality, but on Friday, Feb.9, WoR on 9475 was so badly distorted , I had to listen in the SSB mode to make it readable, despite a 50 over S9 signal on my R-5000 receiver.

It sounded like a poor-quality satellite feed, and there was a steady low-frequcy tone in the background (also noted on 3315). Did WoR switch from audio tapes to satellite on WWCR ? If that is the case, it is definitely not an improvement.

Since January, many other pgms on WWCR are also severely distorted. In addition, WWCR has been causing its own QRM for several months. During the day, a weak signal from 15685 has been mixing with 12160, and after 0000 UTC the audio from 9475 and 3315 interferes with 5065. I have also noticed many xmtr breaks and long periods of dead air, often during WoR. I phoned the station several times, but could not contact anyone who would listen or return my calls. Perhaps you can bring these problems to their attention.

The comment on WoR, about RCI, BBC & R Neth falling apart, is quite true. As I mentioned before, RCI's audio quality is disgraceful, and there are frequent xmtr breaks and switching errors. The incompetence at RCI is appalling, and is causing more harm than the budget cuts. Somebody in the technical department should be fired, before they lose all their listeners. If you get a chance listen to As It Happens on 5960 from 2330, to confirm what I said. The Sackville relay of BBC and RN Bonaire also have numerous technical problems and poor modulation, but nobody seems to care.

Have heard rumors on several US patriot & militia pgms that up to 5 new xmtrs are being planned for bcsts to NAm, from undisclosed locations that are out of reach of the FCC. This apparently includes Radio Copán on 4930 & 7460, and another high-power Copán xmtr in the future, as anncd on Pete Peters' pgm, 31/1.

Chuck Harder's PRN opened its new flagship stn Feb.1; it is WNSI on 810 with 50 kW daytime, in Jacksonville, AL, the former WJXL, silent since 1/92.

The new woodpecker was on at least 3 fqucs: 9320, 9385 and 9420v, from 0315, Feb.11, with vy strong sigs.

By the way, I don't think CRI deserves any publicity on WoR, unless we approve of slave labor, mass executions & cannibalism, not to mention radio jamming.

73&B.
Ernie Behr

29 (MARK SHAFFER, ARIZONA REPUBLIC, 4 FEB 96 VIA RFPI FAR RIGHT RADIO REVIEW) SEE P 4

His large hands also are blackened by newsprint from the *Dallas Morning News*, the *Washington Times*, the *New American*, published by the John Birch Society, and other publications, said Lawrence Myers, a reporter for the small monthly magazine *Media Bypass*, based in Illinois.

Myers spent 80 minutes with McVeigh in December, sneaking a tape recorder and a camera into the cell with the permission of Jones, but not the prison's.

McVeigh has headphones attached to a wall-mounted radio and tunes into conservative radio broadcasters G. Gordon Liddy and Chuck Harder, popular among followers of the so-called patriot movement.

But McVeigh's first love, on shortwave radio, which he doesn't have in his cell, apparently is a program called *The Hour of the Time*, broadcast out of St. Johns, Ariz. by William Cooper.

Terry Nichols' brother, James Nichols, who attended the hearing, said McVeigh was a regular listener to Cooper's anti-government programs before the bombing.

DATELINE BOGOTA December 30, 1995
© Henrik Klemetz, Apartado Aéreo 95,473, Bogotá, Colombia, South America
(via Radio Nuevo Mundo, Play-DX)

H2679.9 R Sonorama, Bucaramanga, Colombia, Dec. 14, 2340, ballads. Next morning, 1052, "La palabra del Dios vivo", 1-h. daily evangelical program.

H2900 R Metropolitana, Bucaramanga, Colombia, Dec. 14, 2350, Colombian oldies.

H3019.9 La V de La Unión, La Unión, Colombia, Dec. 14, 2319, Catholic service.

H3138v R Maranatha Cultural, Chaparral (Tolima), Colombia, Dec. 21, 2302. Hymns.

3397.8 R Internacional del Perú tentatively here, Dec. 26 and 27 just before 1100. Non-stop huaynos.

3570.2 (H?) La V de Chinchipe, Zumba, Ecuador, logged Dec. 13, 2338, thanks to tip from McVicar, HCJB. Also, and slightly better, shortly after s/on, at 1108, Dec. 15, with "Despertar ecuatoriano" programme, ID and slogan "la radio integración". On Dec. 21, s/off 0128 with NA, mentioning "en los 1100 kHz en la onda media", which makes me wonder if this could be their third harmonic (3x1190). This signal is very poor in Bogotá.

4300.1 La V de Naranjos, Peru, s/on 2350 with NA, Nov. 24. In canned s/on ann., fq and pwr was given as 4310 and 0.5 kW respectively. Name of owner and mgr. as in PWBR '96. JD sounded as follows (some segments hardly understandable, thus omitted here): "Oyentes: tengan Uds. muy buenas noches. Radiodifusora Comercial La Voz de Naranjos da inicio a su transmisión de esta fecha con el propósito de presentar a Uds. esta programación vespertina (...) amena y entretenida, de música, de noticias (...). R dif Com'l La V de Naranjos tiene una potencia de 500 Watios en antena y estamos ubicados en los 4310 (...) (..) casa radial está bajo la dirección del gerente-propietario Mario Cusma Vásquez. Tenemos las mejores intenciones de hacerle (...) una buena y grata compañía durante 5 horas. R dif Com'l La V de Naranjos transmite desde la ciudad de Naranjos, capital del distrito Pardo Miguel, provincia de Rioja, región San Martín, República del Perú, Sudamérica".

4505.1 R Horizonte, Peru, RF, Nov. 26, 2351. Weak. "La emisora del pueblo" slogan.

4702.2 R Eco, Bolivia. Canned ID monitored Nov. 21, 2334, "4700, banda internacional de 60 metros, onda corta, Eco, San Borja, su amiga y compañera. Le invitamos a que comparta nuestra programación". On Dec. 7, "4700, Eco, San Borja, un éxito más en la radiodifusión nacional". On Dec. 9, 2247, "Eco, San Borja, contigo donde estés", once again offering their poster to reporters. (They've done so for quite a while now, but no one seems to have received an answer in writing from the station. However, it's clear that some reports must have reached the stn. - Cf. Dateline Bogotá, Nov. 20).

4719.9 R Avaroa, Bolivia, Nov. 27, 0950 "Amanecer amazónico". Very good at this time of the day.

4732.3 R La Palabra, Bolivia, slowly drifting down in fq; on this spot Nov. 21.

4750 R San Francisco Solano, Peru, increasing level late Nov. "Atardecer campesino" until midnight or slightly later, followed by "Por los caminos del Señor", which is a Catholic devotional programme, often presented by P. Manuel Rosas, who is the manager of the station and vicar of the Sóndor and Sondorillo parrish. This priestly gentleman must have spent a couple of hours in writing a 3-page letter to my Finnish friend J E Österholm, wherein he confirms the address info I have given in a previous issue of Dateline Bogotá. "La Voz de la Parroquia de San Miguel de Sóndor y Sondorillo" is the slogan of the station, and for collectors of *gentilicios*,like myself, those of these two towns are "sondoreños" and "sondorillenses". I have the vicar's word for it!

4850.8 Emisoras Luz y Vida, Ecuador, Nov. 24, 1244, very poor.

4895 La V del Río Arauca, Colombia, RF by Nov. 24, full power.

4986.7 "R Emisoras Minería", Bolivia, on this slightly adjusted fq, Dec. 11, 1025. Now "Balada para Adelina" no longer serves as a cue for the canned ID's the station once received from Sweden, voicing Arto Mujunen, Finland, Dario Monferini, Italy, as well as myself. Instead this music serves as an intro for their ad strings.

5005.7 R Jaén, Peru: "Estás escuchando a R Jaén con nuestra programación más dinámica, musical y noticiosa del dial, Primavera 95. Somos los primeros en su receptor. ¡Claaaro!". Also: "R Jaén, tres frecuencias para una buena audiencia" and "R Jaén, el centro de tu corazón". Irregular, but easily copied when on the air.

5010.3 ERPE, Ecuador, back on the air Dec. 29, 1240, after a lengthy silence.

5277.0 R Paccha, Peru, audible again as of Nov. 21, morning and night. Initially very weak, then climbing a bit audibility-wise. On Dec. 5, at 2328, in their regular "México lindo" programme, fq was given as 5275. On Dec. 8, a day dubbed "El día del locutor" in Peru, Fernando Vásquez Castro, manager of R Frecuencia VH, 4485, was greeted on the air. The R Paccha speaker asked him for a reception report to be given on the air (on 4485) on Monday Dec. 11. How was the R Paccha signal getting to Celendín? That was the querie. (The Paccha trasmitter is probably owned by Señor Vásquez Castro). At s/on 1105, Dec. 11, station address was given on the air as "Calle Mariscal Castilla" (no number).

5498.1 R Lajas, Peru, usually signing on just before midnight. Address info (supplied by McVicar and Inoue) in FT/RPDX/RNM/NU should be corrected as follows: Jirón Rosendo Mendivil 589, Lajas, Provincia de Chota, Cajamarca, Peru. This info was heard on the air, Dec. 10, 2350, but a couple of days later the street number was given as 579. This shouldn't matter very much, though. Slogan is "la frecuencia de la amistad". On Dec. 17, at s/on,fq surprisingly given as "5496 kHz, banda internacional de los 55 metros".

5645.9 R La V de San Antonio, Peru, early December. Not as good as on old 6627.8. On Dec. 5, as early as 2056. On Dec. 8, Valentín Mejía Vásquez was mentioned as the stn manager.

5719.9 R San Miguel Arcángel, Peru, on one single occasion, Dec. 8, at 2345, ann. 5720 and giving address as Jr. Bolívar 354. Unheard at other dates.

5766.8 R Estación Soritor, Peru, has extended its SW transmissions, now consistently heard past 0100. One advertiser on the stn is Laboratorio Láser, Jr. Miguel Grau 399 "junto a Estación Soritor", claiming to build FM and AM transmitters from 20W to 1 kW. On Nov. 21 announcing "5766 kHz". Very loud signal in Bogotá.

6090 R Esperanza, Chile, Dec. 30, 0948,with a 5' news bulletin. Booming signal; must have raised their power.

H6135.7 R Mira, Colombia, spur, Dec. 29, 1230. Fundamental is 6015.3.

6250.1 R Superior, Peru, tentatively Nov. 27, 1114, featuring El Picaflor de los Andes. Also at 2314, on 6250.6. Not heard later.

6259.2 Colombian guerilla clandestine announcing "La Voz del Pueblo, desde las montañas de Colombia", Nov. 26, 2209 till s/off 2259, with guerilla vallenato type music. There was a fq ann. ending in "mil doscientos cincuenta y cinco MHz,onda corta."

6557 R Estación Colonia (also: R Televisión Colonia), Bolivia, often in December until s/off around 2245. On Dec. 4, the carrier stayed on way past midnight, so there's no problem with electricity at Yapacaní, Santa Cruz, where this stn is located. At s/off canned ID's in Spanish and Quechua. Heard picking up R Fides' "La Hora del País" both in the morning and at night.

7143.2v R Altura, Huarmaca, Huancabamba, Peru, Dec. 20, 1930, thanks to McVicar tip on DXPL. During next few days drifting down to 7142.8. Stronger than on 5957, but by no means as clear as on old 7559.5. Dec. 21, 0037 starting "Así es mi tierra" (el programa integrador de los pueblos del Norte peruano).

H9582.9 R Nacional de Venezuela, Dec. 29, 1235, in Spanish. Terribly distorted signal. Unheard on fundamental 9540.

9659.8 R Rumbos, Venezuela, has been off the air for a couple of weeks. Not heard since D-day (devaluation day).

Pennant available in 5 or 6 different colour settings for reporters to "Trocha turística" programme on R Atlántida, Peru, 4790 kHz, 2300-2330 UTC. Write to compère of programme, Señora Carmela López Paredes, c/o R Atlántida, Arica 441, Iquitos, Peru.

"TROCHA TURISTICA"
PROGRAMA RADIAL EN IQUITOS—PERU
DE 6 PM A 6.30 PM
RADIO "ATLANTIDA"
GRACIAS POR SU VISITA
Radio Televisión Colonia
107 Mhz. F.M. 1143 Khz. Onda Media
TELEFONO: — 0933-6164 FAX - 6000
Yapacani - Santa Cruz - Bolivia
oOo

Letter masthead from Bolivian currently heard on 6557 kHz.

Media Network Thursday March 14th 1996:

Nethold, Murdoch and Canal Plus are the largest commercial satellite operators in Europe and as digital satellite services switch on and receivers enter the market place we look at what this will mean for viewers and listeners around the world. Media

Sujan reports from Thimpu from inside the station started by students and now the country's national broadcaster.

Media Network Thursday March 29th 1996: [s/c]

This will be the first edition under the new "summer' schedule.

network examines the battle for consumer choice. Is big brother is watching you from the desk-top receiver? Diana Janssen investigates.

Media Network Thursday March 21st 1996:

This week's show includes a profile of one of the rarest radio stations on the dial..the Bhutan Broadcasting Service. Dheera

DATELINE BOGOTA January 15, 1996
© Henrik Klemetz, Apartado Aéreo 95,473, Bogotá, Colombia

4012.1 R Frecuencia Popular, Peru, raided and closed. Cf. 4300 and 6803v.

4300.1 R dif Comercial La V de Naranjos, Peru, raided and closed. Cf. 6803v.

4761 R Frontera, Venezuela, reactivated Jan. 13, 1500, with live coverage from San Antonio's *Centro cívico*. Undemodulated precisely as before.

4775.4 R Tarma, Peru, Jan. 3, 1027, with one of their ID spots in American English, *Greetings from Peru, the archaelogical center of the Western hemisphere...*

4830.2 R del Buen Pastor, Ecuador, unexpectedly Jan. 11 for some ten minutes prior to s/off with NA at 0103. Good signal. R Táchira was apparently off the air or out of skip. (Inauguration pennant shown overleaf).

4850.3 Emisoras Luz y Vida, Ecuador, reactived. Good signal Jan. 10, making it here also during daylight hours.

4865.1 La Voz del Cinaruco, Colombia, with reduced power. Probably no more than 0.5 kW.

4905.3 Non-stop Venezuelan and Colombian music Sun, Jan. 7 until unexpected s/off around 2300. Then apparently silent until Jan. 10, when back with similar prgr. At 2302, female speaker giving name of station as Ecos del Orinoco, *proyecto de comunicaciones de la Gobernación del Vichada*. In a later canned ID, *cultura, música y medio ambiente*. Was on the air until 0500. On Jan. 12, starting by 1900. Obviously testing on this fq (which is announced on the air) as well as on FM 100.3, but I have not heard any formal requests for reports. Vichada state local gov't is at Puerto Carreño, so that's their QTH, although they didn't say so at the outset. Very good in Bogotá, but R La Oroya, Peru, 4904.7, does interfere at night. - The environmental part of the slogan now implemented in the form of various PSA's, viz. on how to fish without recurring to depredatory methods.

4939.5 R Continental, Barinas, Venezuela, active for New Year's, from Dec. 30 thru Jan. 3, then gone. Yelling *primer lugar en sintonía* as in years past.

4955 Off the air for a couple of days early Jan., Colombia's Radiodifusora Nacional returned to the air with much improved audio on Jan. 4. For fans of Cuban music and its cultural background, César Pagano's prgr *Son para un sonero*, Thu 0415-0445 (approx.), is one of the very best to be heard anywhere.

H4985v R Progresso, Brazil, nominally on 4945, has drifted to this spot, Jan. 12, 1037. Terribly distorted FMing sound.

5010.3 ERPE, Riobamba, Ecuador, reactivated for New Year's, has gone off the air once more. Station is fond of "telegraphic" ID announcements such as *Escuelas Radiofónicas, potencia diez mil.*

5046.2 Presumed R Integración, Peru, Jan. 10, 1048, with Los Alegres del Perú and Christmas greetings from firms in Abancay. Unheard since Feb./Mar. of last year.

5083.9 R Mundo, Peru, occasionally around 1030 with all Spanish prgr called *Tierra fecunda* prior to bilingual *Voz campesina*, which is their usual fare at this time of the day.

5235.5 R Apurímac, Peru, has had a good spell early Jan. Usually on the air well before 1030, on Jan. 3, only at 1059. *R Apurímac, una emisora al servicio del país* is one of their canned ID's. Another one is, *Informativa, musical, entretenida, R Apurímac, la emisora que nació para ser siempre la primera.*

5498 R Lajas, Peru, usually signing on just before midnight. On Sat/Sun their first prgr, run by owner Alfonso Medina Burga himself, is called *Añoranzas cajamarquinas*. On Jan. 14, 0100, interestingly, warning audience for a letter to be read on the air, "in order to get to know how we're being heard in Japan". And then, at 0108, the speaker started reading this letter, signed by Takayuki Inoue Nozaki, wherein he claimed to have heard the station in Tokyo for the first time on Oct. 14, 1995: *"Sintonicé su emisora Radio Lajas por primera vez* en Tokio *(---) en 5498 kHz, en la banda de 54 metros, longitud de onda corta 54 metros con 56 centímetros, el día 14 de octubre de 1995 desde las 19 horas con 20 minutos hasta las (---) horas, en hora local peruana. Esta sintonía fue realizada por un receptor de marca JRC, Japan Radio Corporation, de modelo NRD 5-5 [525 or 535, hard to tell] y una antena de tipo dipolo de 30 metros de longitud. La calidad de recepción era buena. Me parece que su transmisor (--) tener una capacidad de 1 kW en antena".* - However, in "Relámpago DX" # 74, reprinted in RNM # 210, TIN states that this reception was achieved when visiting Peru during the first fortnight of October. And, as can be seen from RNM loggings, Peruvians on the tropical bands propagate to Asia only prior to local sunrise, never local evenings, Peruvian time. - The R Lajas speaker grumbled both times he read out the station address (the correct one being Jr. Rosendo Mendivil 579 or 589). Although very interesting, TIN's report was not the only one from abroad to have reached the station, the speaker said. They had also received letters from, in this order, *Estados Unidos, Argentina, Ecuador, Colombia y hasta una carta muy hermosa desde Suecia*, which the speaker promised to read on

Remember that the summer schedules of many stations will be longer this year since Europe is co-ordinating the switch to winter time. This will be at the end of October 1996 instead of September. Lou Josephs and Victor Goonetilleke look at the frequency changes.

Please note that these programme topics may be adjusted as necessary. Comments and questions about the programme are always welcome to media@rnw.nl. (Jonathan Marks, Radio Netherlands E-mail news release). (ARDXC Electronic DX Press via Thurman)

couple of more slogans to their previous one, *la frecuencia de la amistad*. Additionally, they're now *la frecuencia internacional* and *la frecuencia láser*. The speaker (apart from the owner, the voices of Julio Apolinar, Serafio and César Augusto can also be heard on the air) apparently doesn't believe the station has a worldwide audience judging from the following ID tag, *transmitiendo para todo el territorio nacional y parte del territorio internacional.*

5645.5 *R San Antonio*, also known as R La V de San Antonio, Peru, Jan. 14, ann. 5645. Speaker hoping recent readjustment is providing a better signal. Again on 5645.9, Jan. 15.

H5775 R Mira, Colombia. FMing signal on this spot. Fundamental is 6015.3.

H5894.9 R Mira, Colombia, Jan. 4, 2215, quite readable on ECSS.

5953.6 R Casino, Costa Rica, *la cincuentenaria Reina del Caribe*, they say. So this is the year when they're celebrating their 50th anniversary. Sometimes around 2130, and also around 1030, when Caracol Villavicencio is out of skip.

6115 *Unión la radio*, Peru, with *programación de aniversario*, Jan. 6, 2230, playing 30 year old Peruvian pop songs. 31st anniversary of station on Jan. 14. Jan. 27, 7 pm, a *Festival del recuerdo* is scheduled to take place at Lima's Teatro Segura.

6135 R Santa Cruz, Bolivia, low power, reportedly no more than 2.5 kW, fair a Sat. morning at 0930 with unannounced "música nacional" followed by a 10' ad block, including *motosierras Husqvarna, Academia de choferes Indianapolis* (sic), and various promos such *Campaña de educación vial* (unrelated to former advertiser), *Campaña contra el dengue* (a tropical disease) and *Campaña en defensa de la ecología y el medio ambiente*. At night blocked by Switzerland.

6142 R Mauro Núñez, Bolivia, reactivated with better audio than ever before. First logged Jan. 6, 0040. Now also active in the morning, from 1000, as of Jan. 11.

6200 R for Peace Int'l, Costa Rica, Jan. 4, 2200, still going 1 1/2 h. later with UN Radio.

6230/6250 R Superior, Peru. Cf. 6803v.

6557 R Televisión Colonia (also: R Estación Colonia), Bolivia, Jan. 9 until s/off 2340 with canned ID's in Spanish and Quechua. Much gospel prgr on this stn, altho R Fides' *La hora del País* has been heard (fragments thereof) around 1200 and 2200. Is getting more and more distorted. The carrier sometimes lingers for one or two hours after s/off

6803v R Ondas del Río Mayo, Peru, has been raided by police, equipment seized and station closed. This was reported on HCJB TLC, Jan. 10, per info from BBC Monitoring Service which quoted Eduardo Macedo Zapata, judge of Rioja's penal court, assessed by Ministry of Transport and Comms legal advisor Teófilo Mesa, witnessed the operation undertaken by the local police. Nine stations were reported to have been closed down, three of which have been operating on SW. (Cf. 4012 and 4300.1 kHz. From the town of Naranjos, only "R Naranjos" was mentioned, but it seems to me that in addition to 4300.1, R Superior, 6230/6250 kHz, is gone, too). - Panamericana TV, Lima, has shown how police is cracking down on *emisoras piratas*, says Bogotá DXer Rafael Rodríguez, who has been watching events on his TV screen.

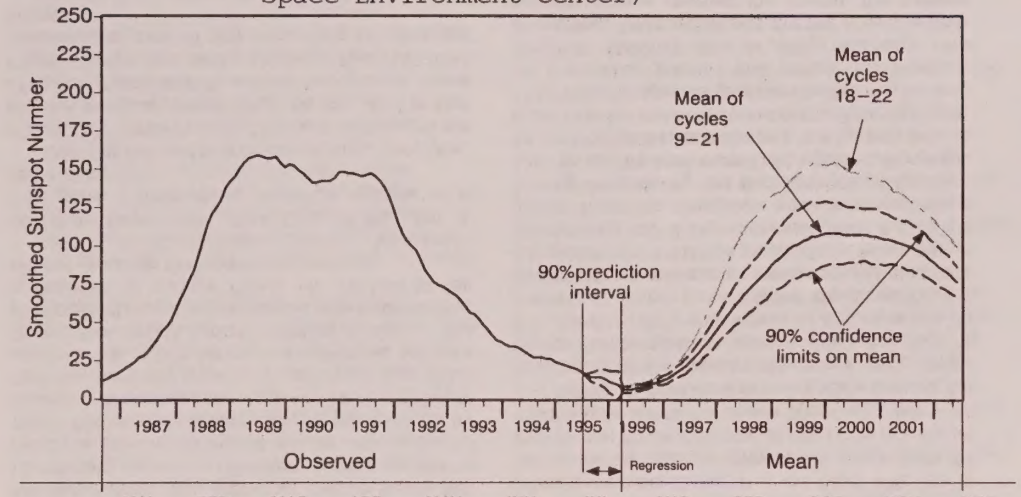
H9510 R Nacional de Venezuela, Jan. 12, terribly distorted and FMing, after 2200, per phone call from Michael Schmitz, at a DX Camp in Germany. Also Jan. 13, until s/off 1459 on H9590. The fundamental on 9540 is silent.

9720.5 R Victoria, Peru, has been off the air since mid-December.

## SEC Prediction of Smoothed Sunspot Number

Based of January 1996 observed data

(Preliminary Report and Forecast,
Space Environment Center)




| | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1995 | 24 (***) | 23 (***) | 22 (***) | 21 (***) | 20 (***) | 19 (***) | 17 (***) | **15** ( 1) | **14** ( 3) | **14** ( 4) | **14** ( 5) | **13** ( 6) |
| 1996 | **11** ( 7) | **10** ( 8) | **9** ( 9) | 6 ( 2) | 6 ( 2) | 6 ( 2) | 7 ( 2) | 7 ( 2) | 8 ( 2) | 9 ( 2) | 10 ( 2) | 11 ( 2) |
| 1997 | 12 ( 3) | 13 ( 3) | 15 ( 3) | 17 ( 4) | 19 ( 4) | 21 ( 5) | 24 ( 5) | 27 ( 6) | 30 ( 7) | 34 ( 7) | 37 ( 8) | 41 ( 9) |
| 1998 | 45 ( 9) | 49 (10) | 53 (11) | 57 (12) | 61 (13) | 64 (14) | 68 (15) | 71 (15) | 74 (16) | 77 (16) | 80 (17) | 83 (18) |
| 1999 | 87 (18) | 90 (19) | 92 (20) | 95 (21) | 98 (21) | 100 (22) | 101 (22) | 103 (22) | 104 (23) | 106 (23) | 106 (22) | 107 (21) |
| 2000 | 108 (21) | 108 (20) | 108 (20) | 108 (20) | 107 (19) | 107 (18) | 107 (18) | 107 (18) | 107 (17) | 107 (17) | 106 (18) | 106 (18) |
| 2001 | 105 (17) | 104 (17) | 104 (16) | 103 (15) | 102 (15) | 101 (15) | 100 (16) | 99 (15) | 97 (15) | 96 (14) | 94 (14) | 91 (13) |
| 2002 | 89 (13) | 86 (13) | 84 (12) | 82 (12) | 79 (11) | 76 (10) | 74 ( 9) | 71 ( 8) | 69 ( 8) | 67 ( 8) | 64 ( 7) | 62 ( 7) |
| 2003 | 61 ( 7) | 59 ( 7) | 57 ( 7) | 55 ( 6) | 53 ( 6) | 52 ( 7) | 51 ( 7) | 50 ( 8) | 49 ( 8) | 48 ( 8) | 46 ( 8) | 45 ( 7) |
| 2004 | 43 ( 7) | 41 ( 7) | 39 ( 7) | 38 ( 7) | 37 ( 8) | 35 ( 7) | 34 ( 7) | 32 ( 7) | 31 ( 7) | 30 ( 7) | 28 ( 7) | 27 ( 6) |
| 2005 | 26 ( 6) | 25 ( 6) | 25 ( 6) | 24 ( 6) | 23 ( 6) | 22 ( 5) | 21 ( 5) | *** (***) | *** (***) | *** (***) | *** (***) | *** (***) |

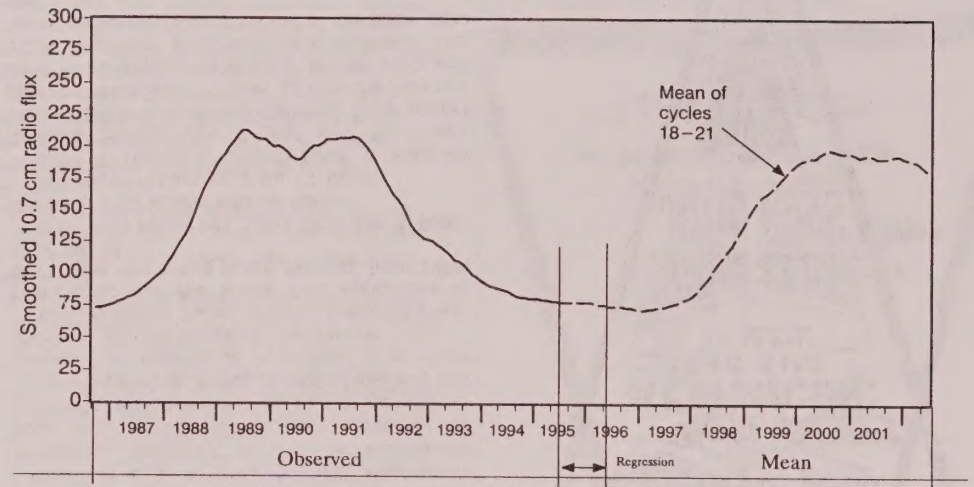
Bold type is Regression model prediction

Article: 62601 of rec.radio.shortwave
From: Eduardo Paredes <eparedes@ucla.edu>
Subject: Radio Alegria, AM 930 Show de las Locas is offensive---
Radio Alegria ofende la comunidad homosexual latina
Date: 25 Jan 1996 04:55:16 GMT

Radio Alegria has a show called El Show de las Locas which asks callers to call in and tell gay jokes that are offensive to the gay community, especially the latino gay communinity. I am amazed that the show has continued and that no issue has been raised about its existence.

## SEC Prediction of Smoothed 10.7 cm Radio Flux

Based on January 1996 observed data




| | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1995 | 81 (***) | 80 (***) | 80 (***) | 79 (***) | 79 (***) | 78 (***) | 77 (***) | **77** ( 4) | **77** ( 8) | **77** (10) | **77** ( 8) | **77** ( 4) |
| 1996 | **77** ( 1) | **77** ( 2) | **76** ( 3) | 75 ( 3) | 75 (11) | 74 (16) | 74 (21) | 74 (28) | 74 (33) | 73 (34) | 73 (29) | 73 (21) |
| 1997 | 72 ( 3) | 72 ( 3) | 73 ( 3) | 73 ( 3) | 74 ( 2) | 74 ( 2) | 75 ( 2) | 76 ( 2) | 77 ( 2) | 78 ( 2) | 80 ( 3) | 81 ( 4) |
| 1998 | 83 ( 4) | 86 ( 5) | 90 ( 7) | 94 ( 9) | 98 (12) | 104 (15) | 109 (18) | 113 (20) | 118 (22) | 122 (22) | 128 (24) | 134 (26) |
| 1999 | 140 (28) | 147 (32) | 153 (37) | 158 (42) | 162 (42) | 164 (42) | 167 (43) | 170 (43) | 174 (45) | 178 (47) | 182 (47) | 185 (49) |
| 2000 | 188 (54) | 190 (56) | 191 (56) | 192 (58) | 192 (59) | 195 (62) | 197 (64) | 199 (65) | 198 (65) | 197 (66) | 196 (69) | 196 (68) |
| 2001 | 196 (65) | 195 (61) | 193 (58) | 194 (57) | 195 (58) | 194 (57) | 192 (55) | 192 (53) | 192 (53) | 193 (53) | 194 (52) | 194 (50) |
| 2002 | 192 (48) | 191 (45) | 190 (43) | 189 (40) | 186 (37) | 183 (33) | 181 (31) | 179 (29) | 177 (26) | 174 (22) | 171 (19) | 167 (19) |
| 2003 | 164 (20) | 161 (22) | 157 (22) | 152 (20) | 147 (17) | 144 (17) | 141 (18) | 137 (18) | 133 (18) | 129 (17) | 125 (15) | 122 (11) |
| 2004 | 119 ( 6) | 116 ( 5) | 115 ( 9) | 115 (12) | 115 (14) | 115 (15) | 114 (15) | 113 (15) | 111 (14) | 109 (15) | 106 (15) | 104 (15) |
| 2005 | 103 (15) | 101 (14) | 98 (13) | 95 (12) | 92 (12) | 89 (13) | 87 (14) | *** (***) | *** (***) | *** (***) | *** (***) | *** (***) |

Bold type is Regression model prediction.

It seems that gay people are the only group which can be made fun of publicly. It's wrong to make fun of fat people, ethnic groups and females, but when it comes to gay people, society has not yet drawn the line. It is about time that the line is drawn and that the gay community no longer tolerate such ridicule. Write and call Radio Alegria and tell them to cancel El Show de las Locas because it is offensive and insults the gay community. Call:

(213) 461-9300

write:

KKHJ 930 AM
5724 Hollywood Boulevard
Los Angeles, CA 90068

(CBC Radio Guide via Tim Flannery)

# A new global culture emerging

You may find your secret hideaway in a forgotten corner of the world, but before long it too will begin to sound and feel like home. Material circumstances shape human culture and we all go into the same industrial-strength blender. We come out homogenized and greatly changed.

In his series *Millennium*, writer and broadcaster Gwynne Dyer argues that a single global culture is emerging before our eyes, moulded by economic and technological forces, and above all, by mass media that now operate on a global scale.

GWYNNE DYER

"And it's not Americanization. We are all going through the same process of change, it just happened to the Americans first," Dyer explains in a telephone interview from Montreal, a day prior to leaving for China to continue work on the six-part series.

The same global phenomena of education, trade and mass communications are making democratization inevitable. "Our world is becoming one unified global country. It's more and more the same everywhere. You talk to young people all over the world and they know what you're talking about," Dyer says.

The idea for the series was born when Dyer's own experience of travel changed and he no longer met the same difficulties he at one time considered normal.

To the sound of local FM radio stations in English, Russian and Thai, Dyer takes listeners from the west coast of North America (where we hear from *Cyberpunk* author William Gibson in Vancouver) to Thailand where a high-speed cultural transformation is taking place and where we visit senator, social activist and "condom king" Mechai Viravaidya in Bangkok.

Other highlights include a visit to Moscow, where Dyer talks to Russian presidential spokesman and writer Vyacheslav Kostikov about economic change that is turning people's lives upside down. In Egypt we take a closer look at the bitter struggle between fundamentalist and secular Muslims and hear from former Nasser confidant and newspaper editor Muhammad Heikal.

When asked how he views the modern world, Dyer turns to his own Newfoundland roots for an answer: "We are like a school of fish swimming in the same direction, even if some always swim the other way."

***Sunday Morning/Ideas***

Beginning March 24, 9.11 am (9.41 NT) Radio/April 3, 9.05 pm (9.35 NT) Radio

LONDON (Reuter) - More than 140 million people in 100 countries ranging from China to Cuba listen to the BBC World Service radio each week in English and 41 other languages, the broadcasting corporation said Monday.

The latest figures, based on audience measurements, is an increase of five percent on last year's record of 133 million, but excludes countries such as Iran, Iraq and Somalia where statistics are not available.

"From Azerbaijan to Zimbabwe, more people than ever rely on the World Service for news they can trust and programs they can enjoy," managing director Sam Younger said in a statement.

The British Broadcasting Corp. said audience increases were recorded in every region of the world, particularly in Pakistan, where more than one in five adults listen to the BBC in Urdu and in Albania where half the adult population tunes in.

Parliament funds the BBC's radio services with a $203 million grant. [via David R. Alpert via Monitoring Times]

Radio Alegria 930 AM tiene un segmento que se llama el Show de las Locas. Este segmento llama al publico que hagan bromas de la comunidad homosexual, y la llamada con el mejor chiste gana un premio. El programa es muy ofensiva a la comunidad homosexual latina, y no deberia de estar al aire. En este dia no se puede ser bromas de la gente gorda, de grupos ethnicos, ni de las mujeres, pero por alguna razon toleramos bromas de la gente homosexual. No podemos tolerar abuso de este tipo. Llamen al Radio Alegria, y diganles que cancelen El Show de Las Locas porque el programa es ofensiva, y ridicula.

**COALITION TO RESTORE FULL RCI FUNDING**

**SCFP Local 675, 1250 de la Visitation, Montreal, Quebec H2L 3B4**
**TEL: (514) 844-2262 FAX: (514) 521-3082**
**E-mail: rci@cam.org**

**ENCOURAGING NEWS FOR RCI - BUT THE BATTLE CONTINUES**

(via Wojtek Gwiazda)

**January 25, 1996 ended up being a turning point in the battle to save RCI as two newly appointed ministers declared their intention not to let RCI die.**

**"Our first priority is to restore funding to Radio Canada International," said the new Heritage Minister and deputy Prime Minister, Sheila Copps, as she met reporters for the first time.**

**What this means is not totally clear yet. The government appears ready to save RCI, but has given no details, and since these initial remarks, it has started to downplay its eagerness to save the service. Let's help them with more letters and suggestions.**

**They do have an impact.**

**When the initial announcement of the closure was announced on December 12, there seemed to be no hope. But an enormous listener reaction from within and outside of Canada overwhelmed the politicians in Ottawa, and barely a month later, on January 25, the government promised to save the service.**

**The Coalition wants a clear statement from the government: we are calling for a separate, protected budget, (somewhat like Canada's contribution to the United Nations.) We feel that the service should be restored to at least its 1990-91 levels, bringing back language sections such as the German and Japanese services, and restoring the targeted English and French programming for different geographic areas such as Europe, Africa, Asia etc.**

**What can you do? Please write and say why Canada needs an effective voice on the international stage. Tell the government how RCI has helped you and your family, friends and business associates.**

**Please continue to convince the politicians that Canada needs a strong radio voice, that costs only the price of one cup of coffee per Canadian per year!**

The Right Hon. Jean Chretien
Prime Minister of Canada
Ottawa, Canada K1A 0A6
Fax: (613) 957-5556

The Hon. Sheila Copps
Minister of Canadian Heritage
Ottawa, Canada K1A 0A6
Fax: (613) 992-2727

E-mail Jean Chretien at:
remote-printer.Jean_Chretien@0.0.9.6.1.4.9.3.1.6.1./tpc.int

From: Marc Vissers
To: All
Subject: Vatican Radio W95

Msg #224, Jan-15-96 23:30

(via George Thurman)

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* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *
*                                                                     *
*   Here's another file from DXA-BBS : +32 3 825 36 13 (2 lines)      *
*      2:292/878 ¦ dxa@innet.be ¦ http://www.innet.net/~dxa           *
*         DX-ANTWERP, P.O.Box 16, B-2660 HOBOKEN BELGIUM              *
*   DXA-PHONE : +32 3 830 48 93 * * * DXA-FAX  : +32 3 825 31 04      *
*                                                                     *
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *
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# VATICAN RADIO
## January, February, March 1996

Compiled by Marc Vissers on January 15th, 1996. Combining both printed schedules with HFCC data.

| FREQ | STAR | STOP | DAYS | ITU | SITE | KW | AZI | LANGUAGE | TARGET |
|---|---|---|---|---|---|---|---|---|---|
| 5880 | 0310 | 0330 | SMTWTFS | I | S.M. di Galeria | 100 | 86 | Armenian | NE |
| 5880 | 0330 | 0400 | SMTWTFS | I | S.M. di Galeria | 100 | 54 | Russian | eEu |
| 5880 | 0400 | 0420 | SMTWTFS | I | S.M. di Galeria | 100 | 54 | Ukrainian | eEu |
| 5880 | 0540 | 0600 | SMTWTFS | I | S.M. di Galeria | 100 | 326 | French | wEu |
| 5880 | 0600 | 0620 | SMTWTFS | I | S.M. di Galeria | 100 | 326 | English | wEu |
| 5880 | 0620 | 0630 | SMTWTFS | CVA | Vatican City | 80 | 10 | Italian | Eu |
| 5880 | 0630 | 0700 | SMTWTFS | CVA | Vatican City | 80 | 10 | Latin Mass | Eu |
| 5880 | 0700 | 0715 | -MTWTFS | CVA | Vatican City | 80 | 10 | Italian | Eu |
| 5880 | 0715 | 0730 | -MTWTFS | CVA | Vatican City | 80 | 10 | French | Eu |
| 5880 | 0730 | 0745 | -MTWTFS | CVA | Vatican City | 80 | 10 | English | Eu |
| 5880 | 0745 | 0800 | -MTWTFS | CVA | Vatican City | 80 | 10 | Arabic | Eu |
| 5880 | 1000 | 1100 | ---W--- | CVA | Vatican City | 80 | 10 | Papal Aud | Eu |
| 5880 | 1100 | 1110 | -MTWTFS | CVA | Vatican City | 80 | 10 | Italian | Eu |
| 5880 | 1100 | 1115 | S------ | CVA | Vatican City | 80 | 10 | Angelus | Eu |
| 5880 | 1110 | 1120 | -MTWTFS | CVA | Vatican City | 80 | 10 | French | Eu |
| 5880 | 1115 | 1200 | S------ | CVA | Vatican City | 80 | 10 | Italian | Eu |
| 5880 | 1120 | 1130 | -MTWTFS | CVA | Vatican City | 80 | 10 | English | Eu |
| 5880 | 1300 | 1330 | SMTWTFS | CVA | Vatican City | 80 | 10 | Italian | Eu |
| 5880 | 1500 | 1515 | SMTWTFS | CVA | Vatican City | 80 | 10 | German | Eu |
| 5880 | 1515 | 1530 | SMTWTFS | CVA | Vatican City | 80 | 10 | Polish | Eu |
| 5880 | 1530 | 1600 | S------ | CVA | Vatican City | 80 | 10 | Pol Mass | Eu |
| 5880 | 1530 | 1600 | -MTWT-S | CVA | Vatican City | 80 | 10 | Music | Eu |
| 5880 | 1530 | 1600 | -----F- | CVA | Vatican City | 80 | 10 | Italian | Eu |
| 5880 | 1600 | 1630 | -MTWTFS | CVA | Vatican City | 80 | 10 | Vespers | Eu |
| 5880 | 1630 | 1700 | SMTWTFS | CVA | Vatican City | 80 | 10 | Italian | Eu |
| 5880 | 1710 | 1740 | SMTWTFS | I | S.M. di Galeria | 100 | 55 | Russian | eEu |
| 5880 | 1740 | 1800 | SMTWTFS | I | S.M. di Galeria | 100 | 55 | Ukrainian | eEu |
| 5880 | 1815 | 1830 | SMTWTFS | I | S.M. di Galeria | 100 | 55 | Hungarian | eEu |
| 5880 | 1830 | 1845 | SMTWTFS | I | S.M. di Galeria | 100 | 26 | Czech | eEu |
| 5880 | 1845 | 1900 | SMTWTFS | I | S.M. di Galeria | 100 | 26 | Slovak | eEu |
| 5880 | 1900 | 1920 | SMTWTFS | I | S.M. di Galeria | 100 | 26 | Polish | eEu |
| 5880 | 1920 | 1940 | SMTWTFS | I | S.M. di Galeria | 100 | 26 | German | cEu |
| 5880 | 1940 | 2000 | SMTWTFS | I | S.M. di Galeria | 100 | 326 | Rosary | wEu |
| 5880 | 2000 | 2020 | SMTWTFS | I | S.M. di Galeria | 100 | 326 | Italian | wEu |
| 5880 | 2020 | 2030 | S------ | I | S.M. di Galeria | 100 | 326 | Esperanto | wEu |
| 5880 | 2030 | 2050 | SMTWTFS | I | S.M. di Galeria | 100 | 326 | French | wEu |
| 5880 | 2050 | 2110 | SMTWTFS | I | S.M. di Galeria | 100 | 326 | English | wEu |
| 5880 | 2110 | 2130 | SMTWTFS | I | S.M. di Galeria | 100 | 266 | Spanish | swEu |
| 5880 | 2130 | 2145 | SMTWTFS | I | S.M. di Galeria | 100 | 266 | Portuguese | swEu |
| 5880 | 2145 | 2200 | SMTWTFS | I | S.M. di Galeria | 100 | 184 | Arabic | nAf |
| 5935 | 2200 | 2245 | SMTWTFS | I | S.M. di Galeria | 500 | 55 | Chinese | sAs |
| 5980 | 0040 | 0100 | SMTWTFS | I | S.M. di Galeria | 500 | 95 | Hindi | sAs |
| 5980 | 0100 | 0120 | SMTWTFS | I | S.M. di Galeria | 500 | 95 | Tamil | sAs |
| 5980 | 0120 | 0140 | SMTWTFS | I | S.M. di Galeria | 500 | 95 | Malayalam | sAs |
| 5980 | 0140 | 0200 | SMTWTFS | I | S.M. di Galeria | 500 | 95 | English | sAs |
| 6065 | 2100 | 2130 | SMTWTFS | I | S.M. di Galeria | 250 | 35 | Russian | eEu |
| 6065 | 2130 | 2200 | SMTWTFS | I | S.M. di Galeria | 500 | 45 | Japanese | J |
| 6065 | 2200 | 2245 | SMTWTFS | I | S.M. di Galeria | 250 | 55 | Chinese | sAs |
| 6065 | 2245 | 2315 | SMTWTFS | I | S.M. di Galeria | 500 | 72 | English | sAs |
| 6065 | 2315 | 0000 | SMTWTFS | I | S.M. di Galeria | 500 | 72 | Vietnamese | sAs |
| 6095 | 0100 | 0145 | SMTWTFS | I | S.M. di Galeria | 500 | 238 | Spanish | SAm |
| 6095 | 0145 | 0230 | SMTWTFS | I | S.M. di Galeria | 500 | 260 | Spanish | SAm |
| 6095 | 0230 | 0250 | SMTWTFS | I | S.M. di Galeria | 500 | 310 | French | NAm/CAm |
| 6095 | 0250 | 0315 | SMTWTFS | I | S.M. di Galeria | 500 | 310 | English | NAm/CAm |
| 6095 | 0315 | 0400 | SMTWTFS | I | S.M. di Galeria | 500 | 310 | Spanish | CAm |
| 6185 | 0310 | 0330 | SMTWTFS | I | S.M. di Galeria | 250 | 75 | Armenian | NE |
| 6185 | 0330 | 0400 | SMTWTFS | I | S.M. di Galeria | 250 | 55 | Russian | eEu |
| 6185 | 0400 | 0420 | SMTWTFS | I | S.M. di Galeria | 250 | 55 | Ukrainian | eEu |
| 6185 | 0420 | 0440 | SMTWTFS | I | S.M. di Galeria | 250 | 35 | Byellorus | neEu |
| 6185 | 0440 | 0500 | SMTWTFS | I | S.M. di Galeria | 250 | 35 | Lithuanian | neEu |
| 6185 | 0500 | 0520 | SMTWTFS | I | S.M. di Galeria | 250 | 35 | Latvian | neEu |
| 6185 | 0520 | 0540 | SMTWTFS | I | S.M. di Galeria | 250 | 55 | Romanian | eEu |
| 6185 | 0540 | 0600 | SMTWTFS | I | S.M. di Galeria | 250 | 55 | Bulgarian | eEu |
| 6185 | 0600 | 0620 | SMTWTFS | I | S.M. di Galeria | 250 | 4 | Scandinav | nEu |
| 6185 | 1650 | 1710 | SMTWTFS | I | S.M. di Galeria | 250 | 86 | Armenian | NE |
| 6185 | 1710 | 1740 | SMTWTFS | I | S.M. di Galeria | 250 | 54 | Russian | neEu |
| 6185 | 1740 | 1800 | SMTWTFS | I | S.M. di Galeria | 250 | 54 | Ukrainian | eEu |
| 6185 | 1800 | 1820 | SMTWTFS | I | S.M. di Galeria | 250 | 35 | Byellorus | neEu |
| 6185 | 1820 | 1840 | SMTWTFS | I | S.M. di Galeria | 250 | 35 | Lithuanian | neEu |
| 6185 | 1840 | 1900 | SMTWTFS | I | S.M. di Galeria | 250 | 35 | Latvian | neEu |
| 6185 | 1900 | 1920 | SMTWTFS | I | S.M. di Galeria | 250 | 55 | Romanian | eEu |
| 6185 | 1920 | 1940 | SMTWTFS | I | S.M. di Galeria | 250 | 55 | Bulgarian | eEu |
| 6185 | 1940 | 2000 | SMTWTFS | I | S.M. di Galeria | 250 | 35 | Rosary | eEu |
| 6185 | 2000 | 2020 | SMTWTFS | I | S.M. di Galeria | 250 | 4 | Scandinav | nEu |
| 6185 | 2020 | 2035 | ---W--- | I | S.M. di Galeria | 250 | 4 | Esperanto | nEu |
| 7250 | 0630 | 0700 | SMTWTFS | I | S.M. di Galeria | 100 | 326 | Latin Mass | Eu |
| 7250 | 0700 | 0715 | -MTWTFS | I | S.M. di Galeria | 100 | 54 | Italian | Eu |
| 7250 | 0700 | 0715 | -MTWTFS | I | S.M. di Galeria | 100 | 326 | Italian | Eu |
| 7250 | 0710 | 0730 | S------ | I | S.M. di Galeria | 100 | 54 | Romanian | Eu |
| 7250 | 0710 | 0730 | S------ | I | S.M. di Galeria | 100 | 326 | Romanian | Eu |
| 7250 | 0715 | 0730 | -MTWTFS | I | S.M. di Galeria | 100 | 326 | French | Eu |
| 7250 | 0730 | 0745 | -MTWTFS | I | S.M. di Galeria | 100 | 54 | English | Eu |
| 7250 | 0730 | 0745 | -MTWTFS | I | S.M. di Galeria | 100 | 326 | English | Eu |
| 7250 | 0745 | 0800 | -MTWTFS | I | S.M. di Galeria | 100 | 54 | Arabic | Eu |
| 7250 | 0745 | 0800 | -MTWTFS | I | S.M. di Galeria | 100 | 234 | Arabic | wAf |
| 7250 | 0830 | 0930 | S------ | I | S.M. di Galeria | 100 | 4 | Ital Mass | Eu |
| 7250 | 1500 | 1515 | SMTWTFS | CVA | Vatican City | 30 | 4 | German | Eu |
| 7250 | 1515 | 1530 | SMTWTFS | CVA | Vatican City | 30 | 4 | Polish | Eu |
| 7250 | 1530 | 1600 | S------ | CVA | Vatican City | 30 | 4 | Pol Mass | Eu |
| 7250 | 1530 | 1600 | -MTWT-S | CVA | Vatican City | 30 | 4 | Music | Eu |
| 7250 | 1530 | 1600 | -----F- | CVA | Vatican City | 30 | 4 | Italian | Eu |
| 7250 | 1600 | 1630 | -MTWTFS | CVA | Vatican City | 30 | 4 | Vespers | Eu |
| 7250 | 1630 | 1700 | SMTWTFS | CVA | Vatican City | 30 | 4 | Italian | Eu |
| 7250 | 1700 | 1715 | SMTWTFS | I | S.M. di Galeria | 100 | 326 | French | Eu |
| 7250 | 1715 | 1730 | SMTWTFS | I | S.M. di Galeria | 100 | 326 | English | Eu |
| 7250 | 2050 | 2110 | SMTWTFS | I | S.M. di Galeria | 100 | 326 | English | wEu |
| 7250 | 2110 | 2130 | SMTWTFS | I | S.M. di Galeria | 100 | 266 | Spanish | swEu |
| 7250 | 2130 | 2145 | SMTWTFS | I | S.M. di Galeria | 100 | 266 | Portuguese | swEu |
| 7250 | 2145 | 2200 | SMTWTFS | I | S.M. di Galeria | 100 | 266 | Arabic | nAf/wAf |
| 7255 | 1315 | 1345 | SMTWTFS | I | S.M. di Galeria | 500 | 42 | Japanese | J |
| 7305 | 0030 | 0100 | SMTWTFS | I | S.M. di Galeria | 250 | 230 | Portuguese | SAm |
| 7305 | 0100 | 0230 | SMTWTFS | I | S.M. di Galeria | 250 | 250 | Spanish | SAm |
| 7305 | 0230 | 0250 | SMTWTFS | I | S.M. di Galeria | 250 | 294 | French | NAm/CAm |
| 7305 | 0250 | 0315 | SMTWTFS | I | S.M. di Galeria | 250 | 294 | English | NAm/CAm |
| 7305 | 0315 | 0400 | SMTWTFS | I | S.M. di Galeria | 250 | 294 | Spanish | CAm |
| 7305 | 2200 | 2245 | SMTWTFS | I | S.M. di Galeria | 500 | 55 | Chinese | sAs |
| 7305 | 2245 | 2315 | SMTWTFS | I | S.M. di Galeria | 500 | 72 | English | sAs |
| 7305 | 2315 | 0000 | SMTWTFS | I | S.M. di Galeria | 500 | 72 | Vietnamese | sAs |
| 7310 | 2100 | 2130 | SMTWTFS | I | S.M. di Galeria | 500 | 42 | Russian | eEu |
| 7310 | 2130 | 2200 | SMTWTFS | I | S.M. di Galeria | 500 | 55 | Japanese | J |
| 7335 | 0040 | 0100 | SMTWTFS | I | S.M. di Galeria | 250 | 86 | Hindi | sAs |
| 7335 | 0100 | 0120 | SMTWTFS | I | S.M. di Galeria | 250 | 86 | Tamil | sAs |
| 7335 | 0120 | 0140 | SMTWTFS | I | S.M. di Galeria | 250 | 86 | Malayalam | sAs |
| 7335 | 0140 | 0200 | SMTWTFS | I | S.M. di Galeria | 250 | 86 | English | sAs |
| 7360 | 0250 | 0320 | SMTWTFS | I | S.M. di Galeria | 500 | 145 | French | eAf |
| 7360 | 0320 | 0350 | SMTWTFS | I | S.M. di Galeria | 500 | 145 | English | eAf |
| 7360 | 0350 | 0405 | SMTWTFS | I | S.M. di Galeria | 250 | 146 | Swahili | eAf |
| 7360 | 0405 | 0430 | SMTWTFS | I | S.M. di Galeria | 250 | 146 | Amhar/Tigr | eAf |
| 7360 | 0500 | 0530 | SMTWTFS | I | S.M. di Galeria | 250 | 184 | English | Af |
| 7360 | 0530 | 0600 | SMTWTFS | I | S.M. di Galeria | 250 | 230 | Portuguese | Af |
| 7360 | 0600 | 0630 | SMTWTFS | I | S.M. di Galeria | 250 | 230 | French | wAf |
| 7360 | 0630 | 0700 | SMTWTFS | I | S.M. di Galeria | 250 | 230 | English | wAf |
| 7365 | 0330 | 0400 | SMTWTFS | I | S.M. di Galeria | 100 | 45 | Russian | eEu |

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|---|---|---|---|---|---|---|---|---|---|
| 7365 | 0500 | 0525 | SMTWTFS | I | S.M. di Galeria | 100 | 114 | Arabic | ME |
| 7365 | 0500 | 0530 | SMTWTFS | I | S.M. di Galeria | 100 | 114 | Arabic | eAf |
| 7365 | 0600 | 0620 | SMTWTFS | I | S.M. di Galeria | 100 | 4 | Scandinav | nEu |
| 7365 | 1650 | 1710 | SMTWTFS | I | S.M. di Galeria | 100 | 75 | Armenian | NE |
| 7365 | 1710 | 1740 | SMTWTFS | I | S.M. di Galeria | 100 | 54 | Russian | eEu |
| 7365 | 1900 | 1930 | ------S | I | S.M. di Galeria | 500 | 175 | Spanish | Af |
| 7365 | 1940 | 2000 | SMTWTFS | I | S.M. di Galeria | 100 | 114 | Rosary | Af |
| 7365 | 1940 | 2000 | SMTWTFS | I | S.M. di Galeria | 500 | 175 | Rosary | Af |
| 7365 | 2000 | 2030 | SMTWTFS | I | S.M. di Galeria | 250 | 230 | English | Af |
| 7365 | 2000 | 2030 | SMTWTFS | I | S.M. di Galeria | 500 | 175 | English | Af |
| 7365 | 2030 | 2100 | SMTWTFS | I | S.M. di Galeria | 250 | 230 | French | Af |
| 7365 | 2030 | 2100 | SMTWTFS | I | S.M. di Galeria | 500 | 175 | French | Af |
| 9500 | 1230 | 1315 | SMTWTFS | I | S.M. di Galeria | 500 | 65 | Chinese | As |
| 9500 | 1315 | 1345 | SMTWTFS | I | S.M. di Galeria | 500 | 42 | Japanese | J |
| 9500 | 1345 | 1415 | SMTWTFS | I | S.M. di Galeria | 250 | 86 | English | AUS |
| 9500 | 1345 | 1415 | SMTWTFS | I | S.M. di Galeria | 500 | 72 | English | sAs |
| 9600 | 2245 | 2315 | SMTWTFS | I | S.M. di Galeria | 250 | 86 | English | sAs |
| 9605 | 0030 | 0100 | SMTWTFS | I | S.M. di Galeria | 500 | 260 | Portuguese | SAm |
| 9605 | 0100 | 0230 | SMTWTFS | I | S.M. di Galeria | 100 | 266 | Spanish | SAm |
| 9645 | 0500 | 0525 | SMTWTFS | I | S.M. di Galeria | 100 | 114 | Arabic | ME/eAf |
| 9645 | 0630 | 0700 | SMTWTFS | I | S.M. di Galeria | 100 | 26 | Latin Mass | Eu |
| 9645 | 0700 | 0715 | -MTWTFS | I | S.M. di Galeria | 100 | 26 | Italian | Eu |
| 9645 | 0700 | 0715 | -MTWTFS | I | S.M. di Galeria | 100 | 54 | Italian | Eu |
| 9645 | 0710 | 0730 | S------ | I | S.M. di Galeria | 100 | 26 | Romanian | Eu |
| 9645 | 0710 | 0730 | S------ | I | S.M. di Galeria | 100 | 54 | Romanian | Eu |
| 9645 | 0715 | 0730 | -MTWTFS | I | S.M. di Galeria | 100 | 26 | French | Eu |
| 9645 | 0715 | 0730 | -MTWTFS | I | S.M. di Galeria | 100 | 54 | French | Eu |
| 9645 | 0730 | 0745 | -MTWTFS | I | S.M. di Galeria | 100 | 26 | English | Eu |
| 9645 | 0730 | 0745 | -MTWTFS | I | S.M. di Galeria | 100 | 54 | English | Eu |
| 9645 | 0745 | 0800 | -MTWTFS | I | S.M. di Galeria | 100 | 54 | Arabic | Eu |
| 9645 | 0745 | 0800 | -MTWTFS | I | S.M. di Galeria | 100 | 184 | Arabic | Af |
| 9645 | 0930 | 1100 | S------ | I | S.M. di Galeria | 100 | 54 | Or Liturgy | Eu |
| 9645 | 1100 | 1115 | S------ | I | S.M. di Galeria | 100 | 326 | Angelus | Eu |
| 9645 | 1500 | 1515 | SMTWTFS | I | S.M. di Galeria | 100 | 26 | German | Eu |
| 9645 | 1515 | 1530 | SMTWTFS | I | S.M. di Galeria | 100 | 26 | Polish | Eu |
| 9645 | 1530 | 1630 | S------ | I | S.M. di Galeria | 100 | 26 | Pol Mass | Eu |
| 9645 | 1600 | 1630 | -MTWTFS | I | S.M. di Galeria | 100 | 326 | Vespers | Eu |
| 9645 | 1630 | 1700 | SMTWTFS | I | S.M. di Galeria | 250 | 114 | Arabic | eAf/ME |
| 9645 | 1900 | 1930 | ------S | I | S.M. di Galeria | 250 | 184 | Spanish | Af |
| 9645 | 1940 | 2000 | SMTWTFS | I | S.M. di Galeria | 500 | 210 | Rosary | Af |
| 9645 | 2000 | 2030 | SMTWTFS | I | S.M. di Galeria | 500 | 210 | English | Af |
| 9645 | 2030 | 2100 | SMTWTFS | I | S.M. di Galeria | 500 | 210 | French | Af |
| 9660 | 0350 | 0405 | SMTWTFS | I | S.M. di Galeria | 500 | 145 | Swahili | eAf |
| 9660 | 0405 | 0430 | SMTWTFS | I | S.M. di Galeria | 500 | 145 | Amhar/Tigr | eAf |
| 9660 | 0430 | 0500 | SMTWTFS | I | S.M. di Galeria | 500 | 160 | French | eAf |
| 9660 | 0500 | 0530 | SMTWTFS | I | S.M. di Galeria | 500 | 175 | English | Af |
| 9660 | 0530 | 0600 | SMTWTFS | I | S.M. di Galeria | 500 | 175 | Portuguese | Af |
| 9660 | 0600 | 0630 | SMTWTFS | I | S.M. di Galeria | 250 | 230 | French | wAf |
| 9660 | 0630 | 0700 | SMTWTFS | I | S.M. di Galeria | 250 | 230 | English | wAf |
| 9660 | 0715 | 0845 | S------ | I | S.M. di Galeria | 250 | 55 | Ukrainian | eEu |
| 9660 | 1620 | 1630 | S------ | I | S.M. di Galeria | 500 | 145 | Somali | eAf |
| 9660 | 1620 | 1630 | -MTWTF- | I | S.M. di Galeria | 500 | 145 | Swahili | eAf |
| 9660 | 1635 | 1700 | SMTWTFS | I | S.M. di Galeria | 500 | 145 | Amhar/Tigr | eAf |
| 9660 | 1700 | 1730 | SMTWTFS | I | S.M. di Galeria | 500 | 145 | French | Af |
| 9660 | 1730 | 1800 | SMTWTFS | I | S.M. di Galeria | 500 | 165 | English | Af |
| 9660 | 1800 | 1830 | SMTWTFS | I | S.M. di Galeria | 500 | 165 | Portuguese | Af |
| 9940 | 1500 | 1520 | SMTWTFS | I | S.M. di Galeria | 500 | 95 | Hindi | sAs |
| 9940 | 1520 | 1540 | SMTWTFS | I | S.M. di Galeria | 500 | 95 | Tamil | sAs |
| 9940 | 1540 | 1600 | SMTWTFS | I | S.M. di Galeria | 500 | 95 | Malayalam | sAs |
| 9940 | 1600 | 1620 | SMTWTFS | I | S.M. di Galeria | 500 | 95 | English | sAs/Af |
| 11625 | 0430 | 0500 | SMTWTFS | I | S.M. di Galeria | 250 | 139 | French | eAf |
| 11625 | 0500 | 0530 | SMTWTFS | I | S.M. di Galeria | 500 | 145 | English | Af |
| 11625 | 0530 | 0600 | SMTWTFS | I | S.M. di Galeria | 500 | 145 | Portuguese | Af |
| 11625 | 1230 | 1315 | SMTWTFS | I | S.M. di Galeria | 250 | 55 | Chinese | As |
| 11625 | 1345 | 1415 | SMTWTFS | I | S.M. di Galeria | 100 | 89 | English | sAs |
| 11625 | 1345 | 1415 | SMTWTFS | I | S.M. di Galeria | 500 | 72 | English | sAs |
| 11625 | 1415 | 1500 | SMTWTFS | I | S.M. di Galeria | 500 | 72 | Vietnamese | sAs |
| 11625 | 1620 | 1630 | S------ | I | S.M. di Galeria | 100 | 139 | Somali | eAf |
| 11625 | 1620 | 1630 | -MTWTF- | I | S.M. di Galeria | 100 | 139 | Swahili | eAf |
| 11625 | 1635 | 1700 | SMTWTFS | I | S.M. di Galeria | 100 | 139 | Amhar/Tigr | eAf |
| 11625 | 1700 | 1730 | SMTWTFS | I | S.M. di Galeria | 100 | 139 | French | Af |
| 11625 | 1730 | 1800 | SMTWTFS | I | S.M. di Galeria | 500 | 175 | English | Af |
| 11625 | 1800 | 1830 | SMTWTFS | I | S.M. di Galeria | 500 | 175 | Portuguese | Af |
| 11635 | 1730 | 1800 | SMTWTFS | I | S.M. di Galeria | 250 | 139 | English | eAf |
| 11635 | 1800 | 1830 | SMTWTFS | I | S.M. di Galeria | 250 | 230 | Portuguese | wAf |
| 11640 | 1500 | 1520 | SMTWTFS | I | S.M. di Galeria | 500 | 86 | Hindi | sAs |
| 11640 | 1520 | 1540 | SMTWTFS | I | S.M. di Galeria | 500 | 86 | Tamil | sAs |
| 11640 | 1540 | 1600 | SMTWTFS | I | S.M. di Galeria | 500 | 86 | Malayalam | sAs |
| 11640 | 1600 | 1620 | SMTWTFS | I | S.M. di Galeria | 500 | 86 | English | sAs/Af |
| 11740 | 0715 | 0730 | S------ | I | S.M. di Galeria | 100 | 49 | Ukrainian | eEu |
| 11740 | 0930 | 1100 | S------ | I | S.M. di Galeria | 100 | 67 | Or Liturgy | Eu |
| 11740 | 1100 | 1110 | -MTWTFS | I | S.M. di Galeria | 100 | 310 | Italian | Eu |
| 11740 | 1100 | 1115 | S------ | I | S.M. di Galeria | 100 | 310 | Angelus | Eu |
| 11740 | 1110 | 1120 | -MTWTFS | I | S.M. di Galeria | 100 | 310 | French | Eu |
| 11740 | 1120 | 1130 | -MTWTFS | I | S.M. di Galeria | 100 | 310 | English | Eu |
| 11740 | 1300 | 1330 | SMTWTFS | I | S.M. di Galeria | 100 | 319 | Italian | Eu |
| 11740 | 1330 | 1400 | SMTWTFS | I | S.M. di Galeria | 100 | 49 | Russian | neEu |
| 11740 | 1400 | 1415 | SMTWTFS | I | S.M. di Galeria | 100 | 270 | Spanish | Eu |
| 11740 | 1415 | 1430 | SMTWTFS | I | S.M. di Galeria | 100 | 270 | Portuguese | Eu |
| 11810 | 1630 | 1635 | SMTWTFS | I | S.M. di Galeria | 250 | 107 | Arabic | eAf/ME |
| 11810 | 1630 | 1700 | SMTWTFS | I | S.M. di Galeria | 250 | 107 | Arabic | ME |
| 11810 | 1700 | 1715 | SMTWTFS | I | S.M. di Galeria | 250 | 107 | French | Eu |
| 11810 | 1715 | 1730 | SMTWTFS | I | S.M. di Galeria | 250 | 107 | English | Eu |
| 11830 | 2245 | 2315 | SMTWTFS | I | S.M. di Galeria | 250 | 89 | English | sAs |
| 13765 | 1230 | 1315 | SMTWTFS | I | S.M. di Galeria | 500 | 65 | Chinese | As |
| 13765 | 1415 | 1500 | SMTWTFS | I | S.M. di Galeria | 500 | 72 | Vietnamese | sAs |
| 15215 | 0630 | 0700 | SMTWTFS | I | S.M. di Galeria | 100 | 107 | Latin Mass | Eu |
| 15215 | 0700 | 0715 | -MTWTFS | I | S.M. di Galeria | 100 | 107 | Italian | Eu |
| 15215 | 0715 | 0730 | -MTWTFS | I | S.M. di Galeria | 100 | 107 | French | Eu |
| 15215 | 0730 | 0745 | -MTWTFS | I | S.M. di Galeria | 100 | 107 | English | Eu |
| 15215 | 0745 | 0800 | -MTWTFS | I | S.M. di Galeria | 100 | 107 | Arabic | Af/Eu |
| 15570 | 0930 | 1100 | S------ | I | S.M. di Galeria | 500 | 89 | Or Liturgy | Eu |
| 15570 | 1100 | 1110 | -MTWTFS | I | S.M. di Galeria | 100 | 107 | Italian | Eu |
| 15570 | 1100 | 1115 | S------ | I | S.M. di Galeria | 100 | 107 | Angelus | Eu |
| 15570 | 1110 | 1120 | -MTWTFS | I | S.M. di Galeria | 100 | 107 | French | Eu |
| 15570 | 1120 | 1130 | -MTWTFS | I | S.M. di Galeria | 100 | 107 | English | Eu |
| 15570 | 1300 | 1330 | SMTWTFS | I | S.M. di Galeria | 100 | 107 | Italian | Eu |
| 15570 | 1330 | 1400 | SMTWTFS | I | S.M. di Galeria | 250 | 49 | Russian | neEu |
| 15570 | 1400 | 1415 | SMTWTFS | I | S.M. di Galeria | 100 | 269 | Spanish | Eu |
| 15570 | 1415 | 1430 | SMTWTFS | I | S.M. di Galeria | 100 | 269 | Portuguese | Eu |
| 17550 | 1100 | 1110 | -MTWTFS | I | S.M. di Galeria | 100 | 170 | Italian | Eu |
| 17550 | 1100 | 1115 | S------ | I | S.M. di Galeria | 100 | 144 | Lit/Prayer | Af/sAs |
| 17550 | 1100 | 1115 | S------ | I | S.M. di Galeria | 250 | 58 | Lit/Prayer | Eu |
| 17550 | 1110 | 1120 | -MTWTFS | I | S.M. di Galeria | 100 | 170 | French | Eu |
| 17550 | 1120 | 1130 | -MTWTFS | I | S.M. di Galeria | 100 | 170 | English | Eu |
| 17550 | 1130 | 1200 | -----F- | I | S.M. di Galeria | | | Engl Mass | Af |
| 17550 | 1300 | 1330 | SMTWTFS | I | S.M. di Galeria | 100 | 170 | Italian | Eu |

From: Marc Vissers
To: All
Msg #220, Jan-15-96 23:30
Subject: Radio Sweden W95

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* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *
*                                                                     *
*   Here's another file from DXA-BBS : +32 3 825 36 13 (2 lines)      *
*      2:292/878 ¦ dxa@innet.be ¦ http://www.innet.net/~dxa           *
*         DX-ANTWERP, P.O.Box 16, B-2660 HOBOKEN BELGIUM              *
*   DXA-PHONE : +32 3 830 48 93 * * * DXA-FAX  : +32 3 825 31 04      *
*                                                                     *
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *
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(via George Thurman)
RADIO SWEDEN
September 24 - March 31, 1996

Compiled by Marc Vissers on January 15th, 1996 from the printed schedule added known changes and combined with HFCC data.

| FREQ | STAR | STOP | DAYS | ITU | SITE | KW | AZI | LANGUAGE | TARGET |
|---|---|---|---|---|---|---|---|---|---|
| 6000 | 1500 | 1530 | SMTWTFS | S | Horby | 500 | 70 | Russian | Eu |
| 6000 | 1530 | 1545 | SMTWTFS | S | Horby | 500 | 70 | Estonian | |
| 6000 | 1545 | 1600 | S------ | S | Horby | 500 | 70 | Swedish | RUS |
| 6000 | 1545 | 1600 | -MTWTF- | S | Horby | 500 | 70 | Swedish | RUS |
| 6000 | 1545 | 1615 | ------S | S | Horby | 500 | 70 | Swedish | RUS |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 6065 | 0000 | 0030 | SMTWTFS | S | Horby | 500 | 275 | Swedish | LAm |
| 6065 | 0030 | 0100 | SMTWTFS | S | Horby | 500 | 275 | English | LAm |
| 6065 | 0500 | 0715 | -MTWTF- | S | Horby | 500 | 190 | Swedish | Eu/Af/ME |
| 6065 | 0700 | 0900 | ------S | S | Horby | 500 | 190 | Swedish | Eu/Af/ME |
| 6065 | 0800 | 1000 | S------ | S | Horby | 500 | 190 | Swedish | Eu/Af/ME |
| 6065 | 1000 | 1100 | S-----S | S | Horby | 500 | 190 | German | |
| 6065 | 1100 | 1130 | S------ | S | Horby | 500 | 190 | Swedish | Eu/Af/ME |
| 6065 | 1100 | 1130 | ------S | S | Horby | 500 | 190 | Swedish | Eu/Af/ME |
| 6065 | 1130 | 1158 | S------ | S | Horby | 500 | 190 | Swedish | Eu/Af/ME |
| 6065 | 1130 | 1158 | -MTWTF- | S | Horby | 500 | 190 | Swedish | Eu/Af/ME |
| 6065 | 1130 | 1158 | ------S | S | Horby | 500 | 190 | Swedish | Eu/Af/ME |
| 6065 | 1530 | 1545 | SMTWTFS | S | Horby | 500 | 190 | Estonian | |
| 6065 | 1545 | 1600 | S------ | S | Horby | 500 | 190 | Swedish | Eu/Af/ME |
| 6065 | 1545 | 1600 | -MTWTF- | S | Horby | 500 | 190 | Swedish | Eu/Af/ME |
| 6065 | 1545 | 1615 | ------S | S | Horby | 500 | 190 | Swedish | Eu/Af/ME |
| 6065 | 1600 | 1630 | -MTWTF- | S | Horby | 500 | 190 | German | |
| 6065 | 1600 | 1645 | S------ | S | Horby | 500 | 190 | Swedish | Eu/Af/ME |
| 6065 | 1600 | 1645 | ------S | S | Horby | 500 | 190 | Swedish | Eu/Af/ME |
| 6065 | 1630 | 1645 | -MTWTF- | S | Horby | 500 | 190 | Estonian | |
| 6065 | 1645 | 1705 | S------ | S | Horby | 500 | 190 | Swedish | Eu/Af/ME |
| 6065 | 1645 | 1705 | ------S | S | Horby | 500 | 190 | Swedish | Eu/Af/ME |
| 6065 | 1645 | 1715 | -MTWTF- | S | Horby | 500 | 190 | Swedish | Eu/Af/ME |
| 6065 | 1715 | 1745 | SMTWTFS | S | Horby | 500 | 190 | English | Eu |
| 6065 | 1745 | 1800 | SMTWTFS | S | Horby | 500 | 190 | Latvian | |
| 6065 | 1800 | 1830 | SMTWTFS | S | Horby | 500 | 190 | Russian | Eu |
| 6065 | 1830 | 1900 | SMTWTFS | S | Horby | 500 | 190 | English | Af/ME |
| 6065 | 1830 | 1900 | SMTWTFS | S | Horby | 500 | 190 | English | Eu |
| 6065 | 1900 | 1930 | S------ | S | Horby | 500 | 190 | Swedish | Eu/Af/ME |
| 6065 | 1900 | 1930 | -MTWTF- | S | Horby | 500 | 190 | Swedish | Eu/Af/ME |
| 6065 | 1900 | 1930 | ------S | S | Horby | 500 | 190 | Swedish | Eu/Af/ME |
| 6065 | 1930 | 2000 | SMTWTFS | S | Horby | 500 | 190 | German | |
| 6065 | 2000 | 2030 | S-----S | S | Horby | 500 | 190 | German | |
| 6065 | 2000 | 2030 | -MTWTF- | S | Horby | 500 | 190 | Swedish | Eu/Af/ME |
| 6065 | 2030 | 2100 | SMTWTFS | S | Horby | 500 | 190 | Russian | Eu |
| 6065 | 2100 | 2130 | S-----S | S | Horby | 500 | 190 | Swedish | Eu/Af/ME |
| 6065 | 2100 | 2130 | -MTWTF- | S | Horby | 500 | 190 | Swedish | Eu/Af/ME |
| 6065 | 2130 | 2200 | SMTWTFS | S | Horby | 500 | 190 | English | Eu/Af/ME |
| 6065 | 2200 | 2230 | SMTWTFS | S | Horby | 500 | 190 | Swedish | Eu/Af/ME |
| 6065 | 2230 | 2300 | SMTWTFS | S | Horby | 500 | 190 | English | Eu/Af/ME |
| 6200 | 1745 | 1800 | SMTWTFS | S | Horby | 500 | 70 | Latvian | |
| 6200 | 1800 | 1830 | SMTWTFS | S | Horby | 500 | 70 | Russian | Eu |
| 7120 | 0100 | 0130 | SMTWTFS | S | Horby | 500 | 85 | Swedish | As/AUS |
| 7120 | 0130 | 0200 | SMTWTFS | S | Horby | 500 | 85 | English | As/AUS |
| 7120 | 0200 | 0230 | SMTWTFS | S | Horby | 500 | 305 | Swedish | NAm |
| 7120 | 0230 | 0300 | SMTWTFS | S | Horby | 500 | 305 | English | NAm |
| 7120 | 0300 | 0330 | SMTWTFS | S | Horby | 500 | 305 | Swedish | NAm |
| 7120 | 0330 | 0400 | SMTWTFS | S | Horby | 500 | 305 | English | NAm |
| 7150 | 1900 | 1930 | SMTWTFS | S | Horby | 500 | 150 | Swedish | ME |
| 7230 | 2030 | 2100 | SMTWTFS | S | Horby | 500 | 85 | Russian | Eu |
| 7230 | 2100 | 2130 | S-----S | S | Horby | 500 | 180 | Swedish | Eu/Af/ME |
| 7230 | 2100 | 2130 | -MTWTF- | S | Horby | 500 | 180 | Swedish | Eu/Af/ME |
| 7230 | 2130 | 2200 | SMTWTFS | S | Horby | 500 | 180 | English | Eu/Af/ME |
| 7240 | 1645 | 1705 | SMTWTFS | S | Horby | 500 | 150 | Swedish | ME |
| 7240 | 1705 | 1715 | -MTWTF- | S | Horby | 500 | 150 | Swedish | ME |
| 7240 | 1830 | 1900 | SMTWTFS | S | Horby | 500 | 150 | English | Eu/Af/ME |
| 7325 | 2200 | 2230 | SMTWTFS | S | Horby | 500 | 180 | Swedish | Eu/Af/ME |
| 9655 | 1830 | 1900 | SMTWTFS | S | Horby | 500 | 220 | English | Eu/Af/ME |
| 9655 | 1900 | 1930 | SMTWTFS | S | Horby | 500 | 220 | Swedish | Eu/Af/ME |
| 9670 | 1645 | 1705 | SMTWTFS | S | Horby | 500 | 220 | Swedish | Eu/Af/ME |
| 9670 | 1705 | 1715 | -MTWTF- | S | Horby | 500 | 220 | Swedish | Eu/Af/ME |
| 9835 | 1200 | 1230 | SMTWTFS | S | Horby | 500 | 45 | Swedish | As/AUS |
| 9835 | 1230 | 1300 | SMTWTFS | S | Horby | 500 | 55 | English | As/AUS |
| 9835 | 1300 | 1330 | S-----S | S | Horby | 500 | 55 | Swedish | As/AUS |
| 9850 | 0000 | 0030 | SMTWTFS | S | Horby | 500 | 250 | Swedish | LAm |
| 9850 | 0030 | 0100 | SMTWTFS | S | Horby | 500 | 250 | English | LAm |
| 9865 | 1400 | 1430 | SMTWTFS | S | Horby | 500 | 55 | Russian | As/Eu |
| 11650 | 1130 | 1200 | SMTWTFS | S | Horby | 500 | 290 | Swedish | NAm |
| 11650 | 1330 | 1400 | SMTWTFS | S | Horby | 500 | 320 | English | NAm |
| 11650 | 1400 | 1430 | SMTWTFS | S | Horby | 500 | 55 | Russian | As/Eu |
| 11650 | 1430 | 1500 | SMTWTFS | S | Horby | 500 | 320 | English | NAm |
| 11650 | 1500 | 1545 | SMTWTFS | S | Horby | 500 | 320 | Swedish | NAm |
| 11650 | 1545 | 1600 | SMTWTFS | S | Horby | 50 | 320 | Swedish | NAm |
| 13625 | 0500 | 0715 | -MTWTF- | S | Horby | 500 | 180 | Swedish | Eu/Af/ME |
| 13625 | 0700 | 0900 | ------S | S | Horby | 500 | 180 | Swedish | Eu/Af/ME |
| 13625 | 0800 | 1000 | S------ | S | Horby | 500 | 180 | Swedish | Eu/Af/ME |
| 13740 | 1100 | 1130 | S-----S | S | Horby | 500 | 85 | Swedish | Eu/Af/ME |
| 13740 | 1130 | 1158 | SMTWTFS | S | Horby | 500 | | Swedish | Eu/Af/ME |
| 13740 | 1200 | 1230 | SMTWTFS | S | Horby | 500 | 100 | Swedish | As/AUS |
| 13740 | 1230 | 1300 | SMTWTFS | S | Horby | 500 | 100 | English | As/AUS |
| 15240 | 1200 | 1230 | SMTWTFS | S | Horby | 500 | 70 | Swedish | As/AUS |
| 15240 | 1230 | 1300 | SMTWTFS | S | Horby | 500 | 70 | English | As/AUS |
| 15240 | 1300 | 1330 | S-----S | S | Horby | 500 | 70 | Swedish | As/AUS |
| 15240 | 1330 | 1400 | SMTWTFS | S | Horby | 500 | 305 | English | NAm |
| 15240 | 1500 | 1545 | SMTWTFS | S | Horby | 500 | 305 | Swedish | NAm |
| 15245 | 1430 | 1500 | SMTWTFS | S | Horby | 500 | 305 | English | Nam [end] |

From: Marc Vissers
To: All
Subject: Radio Romania Int W95

Msg #219, Jan-15-96 23:30:26
(via George Thurman)

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* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *
*                                                                       *
*   Here's another file from DXA-BBS : +32 3 825 36 13 (2 lines)        *
*      2:292/878 ¦ dxa@innet.be ¦ http://www.innet.net/~dxa             *
*        DX-ANTWERP, P.O.Box 16, B-2660 HOBOKEN BELGIUM                 *
*   DXA-PHONE : +32 3 830 48 93 * * * DXA-FAX  : +32 3 825 31 04        *
*                                                                       *
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *
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RADIO ROMANIA INTERNATIONAL
From September 24, 1995 to March 31, 1996

| LANGUAGE | UTC | FREQUENCIES | TARGET |
|---|---|---|---|
| FRENCH | 1130-1200 | 15390, 17775/15250, 17745/15380, 17790 | WEu/CAN/NAf |
| GERMAN | 1200-1230 | 9690, 11940, 15365, 15390 | CEu |
| ARABIC | 1230-1300 | 15405, 17720/15365, 17745/15380, 17790 | ME/EGY/MAGHREB |
| ROMANIAN | 1300-1330 | 15365, 17790 | AUS |
| ENGLISH | 1300-1400 | 11940, 15390, 17745 | WEu |
| RUSSIAN | 1330-1400 | 9570, 11775 | eRUS |
| ARABIC | 1400-1430 | 11740, 15405/15365, 17745/15380, 17790 | ME/EGY/MAGHREB |
| TURKISH | 1400-1430 | 7105, 9510 | TUR |
| FRENCH | 1430-1500 | 15365, 17745/15380 | CAf/MAGHREB |
| ENGLISH | 1430-1530 | 11740, 11810, 15335 | SAs |
| FARSI | 1500-1530 | 15250, 17745 | IRN |
| UKRAINIAN | 1500-1530 | 5955, 6105 | UKR |
| ITALIAN | 1530-1600 | 9665, 11790 | I |
| ARABIC | 1530-1630 | 11740, 15405/11790, 15365/15380 | ME/EGY/MAGHREB |
| TURKISH | 1600-1630 | 7105, 9510 | TUR |
| FRENCH | 1630-1700 | 9625, 11940 | WEu |
| GERMAN | 1630-1700 | 5990, 7195, 9690 | CEu |
| ROMANIAN | 1630-1700 | 7105, 9665 | ISR |
| SERBIAN | 1700-1730 | 756 | EX-YUG |
| FARSI | 1700-1730 | 9530, 11940 | IRN |
| RUSSIAN | 1700-1730 | 5955, 6105, 7105, 7225 | euRUS |
| AROMANIAN | 1730-1800 | 756 | SEEu |
| ENGLISH | 1730-1800 | 9750, 11740, 11940 | EAf |
| ROMANIAN | 1730-1800 | 5990, 6105, 7195 | W/NWEu |
| GREEK | 1800-1830 | 756 | SEEu |
| PORTUGUESE | 1800-1830 | 9750, 11740 | SWAf |
| GERMAN | 1800-1900 | 6105, 7195, 9690 | CEu |
| SERBIAN | 1830-1900 | 756 | EX-YUG |
| RUSSIAN | 1830-1900 | 5955, 6105, 7105, 7225 | euRUS |
| ITALIAN | 1900-1930 | 756, 6150 | I |
| FRENCH | 1900-1930 | 7225, 9665 | WEu |
| ENGLISH | 1900-2000 | 6105, 7195/7105, 9510 | WEu/NEu |
| GREEK | 1930-2000 | 756 | SEEu |
| SPANISH | 1930-2000 | 7145, 9665, 11790 | E |

| | | | |
|---|---|---|---|
| ITALIAN | 2000-2030 | 756, 6150 | I |
| ROMANIAN | 2000-2030 | 7175, 9690 | WEu |
| FRENCH | 2000-2100 | 5990, 7105, 7195, 9510 | WEu |
| AROMANIAN | 2030-2100 | 756, 1458 | Eu |
| SPANISH | 2030-2130 | 7145, 9665, 11790 | E |
| HUNGARIAN | 2130-2100 | 630 | CEu |
| ENGLISH | 2100-2200 | 5990, 7195/5955, 7105 | WEu/NEu |
| PORTUGUESE | 2130-2230 | 7145, 9665, 11790 | POR |
| ITALIAN | 2200-2130 | 756 | I |
| SPANISH | 2200-2300 | 9510, 9570, 11940 | LAm |
| ROMANIAN | 2230-2230 | 756 | CEu |
| ROMANIAN | 2230-2300 | 9530, 9755, 11830 | LAm |
| ROMANIAN | 2300-2400 | 5990, 9550/9570, 11740, 11940 | NAm/AUS |
| SPANISH | 0000-0100 | 5990, 6155, 9510, 9570, 11775 | LAm |
| PORTUGUESE | 0100-0130 | 5990, 6155, 9510, 9570, 11940 | B |
| ROMANIAN | 0130-0200 | 5990, 6155, 9510, 9570, 11940 | NAm |
| ENGLISH | 0200-0300 | 5990, 6155, 9510, 9570, 11940 | NAm |
| SPANISH | 0300-0400 | 5990, 6155, 9510, 9570, 11940 | LAm |
| ENGLISH | 0400-0430 | 5990, 6155, 9510, 9570, 11940 | NAm |
| UKRAINIAN | 0430-0500 | 5965, 7135 | UKR |
| HUNGARIAN | 0500-0530 | 5955, 7245 | CEu |
| ENGLISH | 0530-0600 | 11940, 15250/15365, 17745, 17790 | SAf/CAf/NWAf |
| RO/FR/GE/EN | 0600-0645 | 7105, 9510, 9570, 9665, 11775 | WEu/CEu |
| ENGLISH | 0645-0745 | 15250, 17805/15405, 17720 | AUS/J |

--
Andreas Volk, Munich,
avolk@koala.ppp.informatik.uni-muenchen.de
Phone / Fax +49-89-496 665

Originally compiled by Andreas Volk, but correcting one typing error and translated languages to English by Marc Vissers.

--- JCQWK
 X SPEED 1.40 #2670 X
 * Origin: DXA-<Shortwave>-BBS Antwerp/Belgium +32-3-8253613 (2:292/878)

From: Marc Vissers
To: All
Subject: Radio Norway Int W95

Msg #209, Jan-15-96 23:30

(via George Thurman)

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* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *
*                                                                   *
*   Here's another file from DXA-BBS : +32 3 825 36 13 (2 lines)    *
*      2:292/878 ¦ dxa@innet.be ¦ http://www.innet.net/~dxa         *
*         DX-ANTWERP, P.O.Box 16, B-2660 HOBOKEN BELGIUM            *
*   DXA-PHONE : +32 3 830 48 93 * * * DXA-FAX  : +32 3 825 31 04    *
*                                                                   *
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *
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Radio Norway International 22.12.95 08:39

HFBC 1 JANUARY TO 30 MARCH 1996

| Time | | Station | Areal | Kw | | | Ciraf |
|---|---|---|---|---|---|---|---|
| | Program | Frequency | | Azimut | | Target | |
| 0030-0100 | | SW2 | 7195 KA2A | 72 | 500 | seAS ! | 49 |
| 0100-0200 | 2x | LPD | 7465 ALG | 290 | 350 | sNA | 10E,11W |
| 0100-0200 | 2 | SW4 | 6120 KA6A | 300 | 500 | cNA | 4,7,8,9W |
| 0200-0300 | 1 | LPD | 7465 ALG | 265 | 350 | nSA | 12N,13W |
| 0200-0300 | 1 | SW4 | 6120 KA6A | 300 | 500 | cNA | 4,7,8,9W |
| 0300-0400 | 1 | SW1 | 7165 KA3 | 120 | 500 | wME | 39,40W |
| 0300-0400 | 1 | SW2 | 5965 KA2A | 110 | 500 | eME | 39E,40 |
| 0300-0400 | 2x | SW4 | 7465 KA6A | 315 | 500 | wNA | 2,3,6,7W,10NW |
| 0400-0500 | 1 | LPD | 5965 ALG | 145 | 350 | eEU | 28E |
| 0400-0500 | 2 | SW1 | 7305 KAKA2A | 110 | 500 | eME | 39E,40 |
| 0400-0500 | 2 | SW2 | 6040 KA3 | 120 | 500 | wME | 39,40W |
| 0400-0500 | 1 | SW4 | 6195 KA6A | 315 | 500 | wNA | 2,3,6,7W,10NW |
| 0500-0600 | 2 | LPD | 5965 ALG | 165 | 350 | eEU | 27E,28 |
| 0500-0600 | 2 | SW1 | 7180 KA2A | 145 | 500 | eAF | 38,47,48,53N |
| 0600-0700 | 2 | LPD | 7180 ALG | 195 | 350 | wEU | 27,28W,37N |
| 0600-0700 | 1 | SW1 | 11735 KA2A | 145 | 500 | eAF | 38,47,48,53N |
| 0600-0700 | 2 | SW2 | 5965 KA3 | 180 | 500 | EU | 27,28,37N |
| 0600-0700 | 2 | SW4 | 9590 KA4 | 195 | 500 | wAF | 37S,46,47,52 |
| 0700-0800 | 1 | LPD | 5965 ALG | 180 | 350 | EU | 27,28,37N |
| 0700-0800 | 1x | SW1 | 7180 KA2A | 195 | 500 | wEU.NZ | 27,28w,37N,60 |
| 0700-0800 | 1 | SW4 | 9590 KA4 | 195 | 500 | wAF | 37S,46,47,52 |
| 0800-0900 | 1 | sw1 | 13800 KA1B | 65 | 500 | AUS | 50,55,58,59 |
| 0800-0900 | 2 | SW2 | 9590 KA1A | 35 | 500 | NZ | 60 |
| 0900-1000 | 1 | SW1 | 15230 Ka2B | 120 | 500 | wME | 39,40W |
| 0900-1000 | 2 | SW2 | 15175 KA1B | 65 | 500 | AU | 50,55,58,59 |
| 1000-1100 | 2 | LPD | 7295 ALG | 315 | 350 | nAT | 5 |
| 1000-1100 | 2 | SW4 | 11830 KA4 | 220 | 500 | wEU | 27,36,37w |
| 1100-1200 | 2 | LPD | 7295 ALG | 180 | 350 | EU | 27,28,37N |
| 1100-1200 | 2 | SW4 | 15270 KA4 | 235 | 500 | SA | 12,13,14 |
| 1200-1300 | 1 | LPD | 9590 ALG | 180 | 350 | EU | 27,28,37N |
| 1200-1300 | 1 | SW1 | 15605 KA1B | 80 | 500 | seAS | 54,58 |
| 1200-1300 | 1 | SW2 | 9795 KA2A | 50 | 500 | eAS | 44,45 |
| 1200-1300 | 1 | SW4 | 11840 KA5A | 280 | 500 | eNA | 4,8,9,11N |
| 1300-1400 | 2x | LPD | 9590 ALG | 180 | 350 | EU | 27,28,37N |
| 1300-1400 | 2x | SW1 | 15605 KA1B | 80 | 500 | seAS,wAU | 54,58 |
| 1300-1400 | 2x | SW2 | 9795 KA2A | 50 | 500 | eAS | 44,45 |
| 1300-1400 | 1 | SW4 | 11840 KA6A | 300 | 500 | cNA | 4,7,8,9W |
| 1400-1500 | 1 | SW2 | 11720 KA2B | 95 | 500 | sAS | 41 |
| 1400-1500 | 2x | SW4 | 11840 KA6A | 300 | 500 | cNA | 4,7,8,9W |
| 1430-1500 | | SW1 | 11850 KA2A | 72 | 500 | seAS | 49 |
| 1500-1600 | 2x | SW1 | 9520 KA3 | 120 | 500 | wME | 39,40W |
| 1500-1600 | 2x | SW2 | 11730 KA2A | 110 | 500 | eME | 39E,40 |
| 1500-1600 | 1 | SW4 | 9485 KA4 | 315 | 500 | wNA | 2,3,6,7W,10NW |
| 1600-1700 | 2 | SW1 | 9590 KA3 | 145 | 500 | eEU | 27E,28 |
| 1600-1700 | 2 | SW2 | 11840 KA2A | 145 | 500 | eAF | 38,47,48,53N |
| 1600-1700 | 2 | SW4 | 11840 KA4 | 315 | 500 | wNA | 2,3,6,7W,10NW |
| 1700-1800 | 1 | LPD | 7485 ALG | 145 | 350 | eEU | 27E,28 |
| 1700-1800 | 1 | SW1 | 9590 KA2A | 145 | 500 | eAF | 38,47,48,53N |
| 1700-1800 | 1 | SW4 | 7525 KA4 | 195 | 500 | wEU | 27,28W,37N |
| 1800-1900 | 2 | LPD | 7485 ALG | 195 | 350 | wAF | 37S,46,47,52 |
| 1800-1900 | 2 | SW1 | 9590 KA2A | 165 | 500 | cAF | 47,48W,52,57N |
| 1800-1900 | 2 | SW4 | 5960 KA4 | 195 | 500 | wEU | 27,28W,37N |
| 1900-2000 | 1x | LPD | 7485 ALG | 195 | 350 | wAF | 37S,46,47,52 |
| 1900-2000 | 1x | SW1 | 9590 KA2A | 165 | 500 | cAF | 47,48W,52,57N |
| 1900-2000 | 1x | SW2 | 5930 KA1A | 35 | 500 | NZ | 60 |
| 1900-2000 | 1x | SW4 | 5960 KA4 | 180 | 500 | EU | 27,28,37N |
| 2000-2100 | 2 | LPD | 7520 ALG | 180 | 350 | EU | 27,28,37N |
| 2000-2100 | 2 | SW4 | 9480 KA4 | 300 | 500 | cCNA | 4,7,8,9w |
| 2100-2200 | 1 | LPD | 5960 ALG | 315 | 350 | nAT | 5 |
| 2100-2200 | 2 | SW1 | 9480 KA1A | 35 | 500 | eAS | 44,45 |
| 2100-2200 | 1 | SW2 | 7315 KA2A | 65 | 500 | AU | 50,55,58,59 |
| 2200-2300 | 2 | SW1 | 5960 KA2A | 65 | 500 | AU | 50,55,58,59 |
| 2200-2300 | 1x | SW2 | 7115 KA1A | 35 | 500 | eAS | 44.45 |
| 2200-2300 | 1x | SW4 | 6200 KA5A | 280 | 500 | eNA | 4,8,9,11N |
| 2300-2400 | 2 | LPD | 7465 ALG | 290 | 350 | eNA | 4,8,9,11N |
| 2300-2400 | 1 | SW2 | 7275 KA1A | 80 | 500 | seAS,wAU | 54,58 |
| 2300-2400 | 1 | SW4 | 5905 KA5A | 235 | 500 | cSA | 12,13W,14,15W |
| 2400-0100 | 1 | LPD | 7465 ALG | 290 | 350 | sNA | 10E,11W |
| 2400-0100 | 2 | SW1 | 7275 KA1A | 80 | 500 | seAS,wAU | 54,58 |
| 2400-0100 | 2 | SW4 | 5905 KA5A | 235 | 500 | cSA | 12,13W,14,15W |

For the English speaking listeners, Radio Norway International is broadcasting a special program, "Norway Now", every Sunday on frequencies marked 1 X or 2 X.

Mailing address: Radio Norway International
0340 Oslo
Norway

Please address reports to: Statens Teleforvaltning
TF/OMG
P.O. Box 447 Sentrum
0104 Oslo
Norway

E-Mail: Internet: olav.grimdalen@nta.telemax.no
X.400: G=olav;S=grimdalen;P=nta;A=telemax;C=no

Phone: +47 22 82 48 89
Fax: +47 22 82 48 91

Reports received by E-Mail between 0500 and 1330 UTC will be answered when received.

This "Transmission Schedule" is available on the following Newsgroups:
rec.radio.shortwave
rec.radio.info
rec.radio.soc
http://nrk.hiof.no/utenland/

Explanations used in the Frequency Schedule.
Time = UTC/GMT, Radio Norway International transmits three different programs.

Name of stations:
LPD = Fredrikstad Broadcaster 350 KW
SVE=Sveio Broadcaster 500 KW,
KVI= Kvitsoy Broadcaster 500 KW

Arial or antenna used: LPD,KA3,KA4 = log periodcal antennas. KA1A and KA1B are curtains antennas used towards the east and southeastern sectors. KA2A and KA2B are a rotable curtain antenna. KA5A AND KA6A Curtain Antennas used towards the Southern And Northern and Western Section

Ciraf Zones = The globe is divided into sectors. E.g.Europe = 27,28, Africa 46,47,52,53,48,. By using these numbers we indicate what part of the globe we want to transmit to.

EU= Europe,SA=South America, NA=North America, SA=South Asia, seAS=South East Asia, ME=Midle East, AF=Africa.

Abreviations as n,s,w,e means. North,South,West,East.

--
Olav Mo Grimdalen
Frekvenskontoret
STF (Statens Teleforvaltning)

--- JCQWK
X SPEED 1.40 #2670 X
* Origin: DXA-<Shortwave>-BBS Antwerp/Belgium +32-3-8253613 (2:292/878)



SENTECH
The Common Carrier for Broadcasting in South Africa

**HF TRANSMISSIONS FROM MEYERTON TRANSMITTING STATION**
**24 SEPTEMBER 1995 - 30 MARCH 1996**

All transmissions are Monday to Sunday, unless otherwise stated. All times quoted are UTC.

(via Monitoring Times)

mf Denotes Monday to Friday
ss Denotes Saturdays and Sundays
* These broadcasts to commence in March 1996

**CHANNEL AFRICA**

| Time UTC | Freq kHz | Tx kW | Target Area | Language |
|---|---|---|---|---|
| 0300 - 0400 | 6000 | 250 | East & Central Afr | Swahili |
| 0300 - 0400 | 7185 | 100 | Indian Ocean Isles | French |
| 0300 - 0500 | 9585 | 500 | East & Central Afr | English |
| 0300 - 0500 | 5955 | 250 | Southern Africa | English |
| 0330 - 0430 | 3955 | 250 | Southern Africa | Chinyanja |
| 0400 - 0500 | 3345 | 100 | Southern Moçambique | Portuguese |
| 0400 - 0500 | 9655 | 250 | Northern Moçambique | Portuguese |
| 0400 - 0600 | 9520 | 250 | Central Africa | French |
| 0500 - 0600 | 7185 | 100 | Southern Africa | English |
| 0500 - 0600 | 11900 | 500 | West Africa | English |
| 0500 - 0600 | 9590 | 250 | Angola | Portuguese |
| 0900 - 1000 ss | 5955 | 100 | Southern Moçambique | Tsonga |
| 1500 - 1600 * | 4945 | 100 | Southern Africa | Shona |
| 1500 - 1700 | 11900 | 250 | East & Central Afr | Swahili |
| 1500 - 1800 | 7155 | 100 | Southern Africa | English |
| 1500 - 1800 | 9530 | 500 | East & Central Afr | English |
| 1600 - 1700 | 15240 | 500 | West Africa | English |
| 1600 - 1700 | 5955 | 100 | Southern Africa | Lozi |
| 1600 - 1800 | 6120 | 250 | Southern Africa | Chinyanja |
| 1700 - 1800 * | 5955 | 100 | Southern Africa | Bemba |
| 1800 - 1900 * | 3345 | 250 | Southern Moçambique | Tsonga |
| 1900 - 2000 | 3345 | 250 | Moçambique | Portuguese |
| 2000 - 2100 | 7225 | 250 | Angola | Portuguese |

**AFRIKAANS STEREO** (domestic service)

| | | | | |
|---|---|---|---|---|
| 0300 - 0430 | 3320 | 100 | ) | |
| 0435 - 0655 | 6000 | 100 | ) Northern Cape | Afrikaans |
| 0700 - 1655 | 7185 | 100 | ) | |
| 1700 - 2300 | 3320 | 100 | ) | |

**RADIO ORANJE** (domestic service)

| | | | | |
|---|---|---|---|---|
| 0000 - 0435 | 3230 | 100 | ) | |
| 0440 - 0650 | 5965 | 100 | ) Northern Cape | Afrikaans |
| 0655 - 1650 | 7270 | 100 | ) | & English |
| 1655 - 2400 | 3230 | 100 | ) | |

**RADIO 2000** (domestic service)

| Time UTC | Freq kHz | Tx kW | Target Area | Language |
|---|---|---|---|---|
| 2300 - 0300 | 3320 | 100 | Northern Cape | Various |

**VOICE OF AMERICA**

| | | | | |
|---|---|---|---|---|
| 0500 - 0530 | 9675 | 250 | West Africa | Hausa |
| 0530 - 0630 | 9675 | 250 | Central & West Afr | French |
| 1600 - 1700 ss | 3970 | 250 | Southern Africa | English |
| 1800 - 1900 mf | 4875 | 100 | Southern Africa | English |

**BBC**

| | | | | |
|---|---|---|---|---|
| 0245 - 0300 | 6180 | 500 | East & Central Afr | English |
| 0300 - 0330 | 6180 | 500 | East & Central Afr | Swahili |
| 0430 - 0500 | 7125 | 500 | Angola | Portuguese |
| 0430 - 0500 | 6135 | 250 | Northern Moçambique | Portuguese |
| 0430 - 0500 | 3390 | 100 | Southern Moçambique | Portuguese |
| 0530 - 0600 | 9515 | 500 | Angola | Portuguese |
| 0530 - 0600 | 11940 | 250 | Angola & West Africa | Portuguese |
| 0530 - 0600 | 6135 | 250 | Moçambique | Portuguese |

| | | | | |
|---|---|---|---|---|
| 0600 - 0700 | 15400 | 250 | West Africa | English |
| 0700 - 0730 | 17830 | 500 | West Africa | English |
| 0700 - 0730 | 11860 | 500 | West Africa | English |
| 0700 - 0730 | 15400 | 250 | West Africa | English |
| 1000 - 1100mf | 17830 | 250 | West Africa | English |
| 1000 - 1100mf | 15400 | 250 | West Africa | English |
| 1700 - 1730 | 9515 | 500 | Angola | Portuguese |
| 1700 - 1730 | 6070 | 500 | Northern Moçambique | Portuguese |
| 1700 - 1730 | 3390 | 250 | Southern Moçambique | Portuguese |
| 1700 - 1900 | 15420 | 250 | Central & East Afr | English |
| 1730 - 1745 | 9515 | 500 | Angola/West Afr | Spec. Eng. |
| 1730 - 1745 | 6070 | 500 | N. Moçambique/E Afr | Spec. Eng. |
| 1730 - 1745 | 3390 | 250 | S. Moçambique/S Afr | Spec. Eng |
| 1745 - 1800 | 7230 | 500 | Central & East Afr | Swahili |
| 1800 - 1830 | 7230 | 250 | Indian Ocean Isles | French |
| 2030 - 2115 | 6135 | 250 | Northern Moçambique | Portuguese |
| 2030 - 2115 | 7205 | 250 | Angola | Portuguese |
| 2030 - 2115 | 3390 | 250 | Southern Moçambique | Portuguese |

**TRANS WORLD RADIO**

| | | | | |
|---|---|---|---|---|
| 0330 - 0400 | 7235 | 500 | Ethiopia | Amharic |
| 0400 - 0425 | 7235 | 500 | Ethiopia | Somali |
| 0600 - 0700 | 11730 | 500 | West Africa | English |
| 1630 - 1700 | 9520 | 250 | Ethiopia | Oromo |
| 1700 - 1730 | 9520 | 250 | Eritrea | Tigrinya |
| 1730 - 1800 | 9520 | 250 | Ethiopia | Amharic |
| 1900 - 1930 | 9510 | 500 | West Africa | Yoruba |
| 1930 - 2000 | 9510 | 500 | West Africa | Fulani |
| 2000 - 2030 | 9510 | 500 | West Africa | Hausa |
| 2030 - 2100 | 9510 | 500 | West Africa | Twi |

**RADIO FRANCE INTERNATIONAL**

| Time UTC | Freq kHz | Tx kW | Target Area | Language |
|---|---|---|---|---|
| 0300 - 0400 | 7135 | 250 | East & Central Afr | French |

**AMATEUR RADIO LEAGUE**

| | | | | |
|---|---|---|---|---|
| 0800 - 0900° | 7205 | 100 | ) | |
| 1800 - 1900· | 3215 | 100 | ) Southern Africa | English & |
| 1830 - 2000°° | 3215 | 100 | ) | Afrikaans |

° Sundays only
· Mondays only
°° one Sunday every three months

mey/ko
01.02.96

**WWCR** WORLD-WIDE CHRISTIAN RADIO SHORTWAVE 100,000 WATTS 1300 WWCR AVENUE NASHVILLE, TN 37218
**WNQM** 1300 AM 10,000 WATTS (615) 255-1300

The following is the Final Summer Schedule (Z-96) submission for WWCR-Shortwave, Nashville, Tennessee.

**WWCR SUMMER (Z-96) FINAL SCHEDULE**

TRANSMITTER #1 - 100 KW - 85 DEGREES

| FREQ | TIME (CST) | TIME (UTC) | DATES |
|---|---|---|---|
| 13.845 | 8:00AM-7:00PM | 1400-0100 | 31 MAR 96-06 APR 96 |
| 5.935 | 7:00PM-8:00AM | 0100-1400 | 31 MAR 96-06 APR 96 |
| 13.845 | 7:00AM-8:00PM | 1200-0100 | 07 APR 96-31 MAY 96 |
| 5.935 | 8:00PM-7:00AM | 0100-1200 | 07 APR 96-31 MAY 96 |
| 13.845 | 7:00AM-9:00PM | 1200-0200 | 01 JUN 96-31 JUL 96 |
| 5.935 | 9:00PM-7:00AM | 0200-1200 | 01 JUN 96-31 JUL 96 |
| 13.845 | 7:00AM-8:00PM | 1200-0100 | 01 AUG 96-29 SEP 96 |
| 5.935 | 8:00PM-7:00AM | 0100-1200 | 01 AUG 96-29 SEP 96 |

TRANSMITTER #2 - 100 KW - 46 DEGREES

| | | | |
|---|---|---|---|
| 15.685 | 5:00AM-5:00PM | 1100-2300 | 31 MAR 96-06 APR 96 |
| 9.475 | 5:00PM-7:00PM | 2300-0100 | 31 MAR 96-06 APR 96 |
| *3.315 | 6:00PM-5:00AM | 0100-1100 | 31 MAR 96-06 APR 96 |
| 15.685 | 5:00AM-5:00PM | 1000-2200 | 07 APR 96-31 MAY 96 |
| 9.475 | 5:00PM-7:00PM | 2200-0000 | 07 APR 96-31 MAY 96 |
| 3.315 | 7:00PM-5:00AM | 0000-1000 | 07 APR 96-31 MAY 96 |
| 15.685 | 5:00AM-5:00PM | 1000-2200 | 01 JUN 96-31 JUL 96 |
| 9.475 | 5:00PM-8:00PM | 2200-0100 | 01 JUN 96-31 JUL 96 |
| 3.315 | 8:00PM-5:00AM | 0100-1000 | 01 JUN 96-31 JUL 96 |
| 15.685 | 5:00AM-5:00PM | 1000-2200 | 01 AUG 96-29 SEP 96 |
| 9.475 | 5:00PM-7:00PM | 2200-0000 | 01 AUG 96-29 SEP 96 |
| 3.315 | 7:00PM-5:00AM | 0000-1000 | 01 AUG 96-29 SEP 96 |

*3.315 Mhz frequency to be changed by Commission.

TRANSMITTER #3 - 100 KW - 40 DEGREES

| FREQ | TIME (CST) | TIME (UTC) | DATES |
|---|---|---|---|
| 12.160 | 8:00AM-5:00PM | 1400-2300 | 31 MAR 96-06 APR 96 |
| 5.065 | 5:00PM-6:00AM | 2300-1200 | 31 MAR 96-06 APR 96 |
| 7.435 | 6:00AM-8:00AM | 1200-1400 | 31 MAR 96-06 APR 96 |
| 12.160 | 8:00AM-6:00PM | 1300-2300 | 07 APR 96-31 JUL 96 |
| 5.065 | 6:00PM-6:00AM | 2300-1100 | 07 APR 96-31 JUL 96 |
| 7.435 | 6:00AM-8:00AM | 1100-1300 | 07 APR 96-31 JUL 96 |
| 12.160 | 8:00AM-6:00PM | 1300-2300 | 01 AUG 96-29 SEP 96 |
| 5.065 | 6:00PM-6:00AM | 2300-1100 | 01 AUG 96-29 SEP 96 |
| 7.435 | 6:00AM-8:00AM | 1100-1300 | 01 AUG 96-29 SEP 96 |

TRANSMITTER #4 - 100 KW - 90 DEGREES

| | | | |
|---|---|---|---|
| 9.475 | 5:00AM-5:00PM | 1100-2300 | 31 MAR 96-06 APR 96 |
| *7.435 | 5:00PM-5:00AM | 2300-1100 | 31 MAR 96-06 APR 96 |
| 9.475 | 5:00AM-5:00PM | 1000-2300 | 07 APR 96-29 SEP 96 |
| 7.435 | 5:00PM-5:00AM | 2300-1000 | 07 APR 96-29 SEP 96 |

*7.435 Mhz frequency to be changed to a 2 Mhz frequency by Commission.
**2.460 MHz began testing 1 March at 0500-0600 UT -gh

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FAX GH WHILE IN ENID: 1-405-233-2948 attn Hauser, 7-day business hrs

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